

**Council Meeting: July 20, 2010**

**SUBJECT:** **Anthem Telecom, LLC** [Applicant] **Lockheed Missiles And Space Co. Inc.** [Owner]: Application for 414-acre site located at **1111 Lockheed Martin Way** (near N. Mathilda Ave.) in an MP-I Zoning District (APN: 110-01-025):

Motion **2010-7095** – Special Development Permit to allow a 112-foot tall wireless telecommunications monopine on the Lockheed Martin campus including antennas for up to six carriers and associated ground equipment within a new enclosure. The project requires City Council review due to a requested deviation from the maximum height limit of 100 feet for telecommunications installations in the MP-I Zoning District.

**REPORT IN BRIEF**

**Existing Site Conditions** Lockheed Martin's industrial campus

**Surrounding Land Uses**

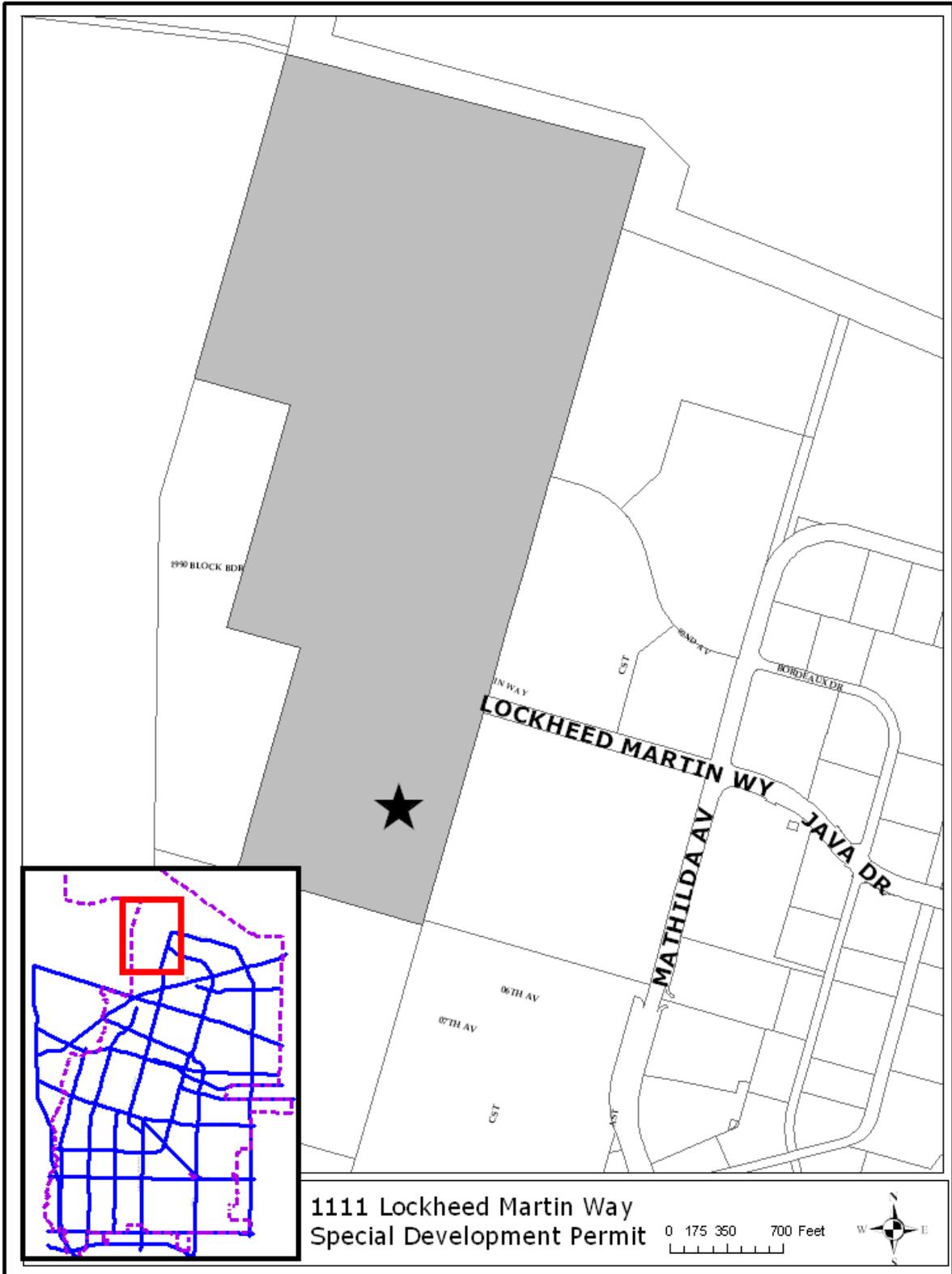
North	Industrial/office, baylands
South	Industrial/office, Onizuka Air Force Station
East	Industrial/office, U.S Navy complex
West	Industrial/office, Moffett Federal Airfield

**Issues** Height, aesthetics

**Environmental Status** A Negative Declaration has been prepared in compliance with California Environmental Quality Act provisions and City Guidelines.

**Planning Commission Recommendation** Adopt the Negative Declaration and Approve the Special Development Permit with the Conditions in Attachment B.

**Staff Recommendation** Adopt the Negative Declaration and Approve the Special Development Permit with the Conditions in Attachment B.



## **PROJECT AND SITE DESCRIPTION**

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**General Plan and Zoning District:** The project site is located within the Moffett Park Specific Plan area north of Highway 237. The General Plan Designation is MP (Moffett Park), and the Zoning Designation is MP-I (Moffett Park Industrial).

**Project Site:** The project site is the existing 414-acre Lockheed Martin Missiles & Space Co. (“Lockheed”) industrial campus. The site is developed with office, manufacturing, and R&D buildings including high-bay facilities. Surrounding uses are primarily industrial, R&D, and office facilities. Moffett Federal Airfield is located to the west of the campus, Onizuka Air Force Station is located to the south, the baylands are located to the north, and a U.S. Navy complex is located at the edge of the campus directly to the east of the project area. There are no nearby residential uses.

The project area is located in the center of the campus in a small existing paved parking area between Lockheed Buildings 149 and 153 (Plans, Attachment D). The landscaping surrounding the perimeter of the subject parking area includes several existing Redwood trees ranging from 45 to 70 feet tall. The project area is within the secured portion of the Lockheed campus which is accessible only by employees, contractors, and authorized escorted visitors. The project area is located more than 1,000 feet from the nearest street accessible to the public.

There is an existing façade-mounted wireless telecommunications facility located on the campus near the roof of Building 159. If the proposed project is approved and constructed, Lockheed proposes to remove the existing façade-mounted facility.

**Description of Project:** The proposed project will locate a new 112-foot tall wireless telecommunications tower in an existing paved parking area. The tower will be disguised as a Redwood tree (a “monopine”). The monopine has been designed to provide collocated facilities for six wireless telecommunications providers. The applicant has contracted with four providers (Sprint, Verizon, T-Mobile, and AT&T) which will locate facilities on the monopine at the time of installation. Space is provided for two additional providers to collocate on the monopine at a later date. The four currently proposed providers will install a total of 41 panel antennas on the tower. The number of antennas to be installed by the two future providers is unknown but is estimated at 16 to 24 additional antennas.

The monopine installation will occur within a new approximately 4,390 square foot enclosure. The enclosure will consist of eight-foot tall chain link fencing and will be placed near a line of existing 50 to 62-foot tall Redwood trees.

Ancillary ground equipment will be located within six lease areas within the enclosure. The four currently-proposed providers will locate 24 equipment cabinets, one 200 square foot equipment shelter, and one emergency generator within their four lease areas. Plug-in facilities will be provided for three additional emergency generators for a total of four generators (one per provider). Lease areas within the enclosure are also provided for the two anticipated future providers which are expected to locate additional equipment and up to two emergency generators within the enclosure.

The project includes removal of 11 existing parking spaces. Two existing parking spaces along the south side of the lot will be retained but incorporated into the new fenced enclosure for use by the wireless service providers' maintenance staff. Ample additional parking is provided on the Lockheed campus to meet parking requirements of Lockheed's Site Master Use Permit. A sidewalk leading to Building 153 will be relocated as part of the project. No landscaping will be removed or altered as part of this project.

**Deviations from Development Standards:** The proposed monopine has a total height of 112 feet to the top of the tallest branch. The height limit for buildings in the MP-I Zoning District is 75 feet. An additional 25 feet is granted for telecommunications facilities under SMC 19.32.030, resulting in a maximum permitted height of 100 feet. The applicant is requesting a deviation from the height limitation to allow a 112-foot tall facility. The wireless providers facilities must be located above adjacent buildings to achieve effective communications, and the providers have specific height requirements based on the locations of their existing systems and towers. The applicant states the proposed monopine has been designed at the minimum functional height to accommodate T-Mobile's requirement to locate at a height of 105 feet, and to provide branches extending upward for a natural tree appearance. The applicant has provided additional justification for the height limit deviation request in Attachment H.

**Radio Frequency (RF) Emissions Exposure:** The FCC is the final authority on safety of telecommunications facilities. If the FCC has determined the facility to be in compliance with federal standards, the City is not permitted to make additional judgments on health and safety issues. The application can be reviewed by the City for compliance with design and location criteria only. The applicant has submitted a RF Emissions Report prepared by Lawrence Behr Associates (Attachment G) which provides information about the proposed RF emissions of the facility. This report indicates the RF emissions proposed for the new facility meet FCC requirements.

The RF Emissions Report considered only the four currently-proposed wireless providers; RF emissions for the two anticipated future providers could not be included as the details of those installations have yet to be determined. Staff is

recommending Condition of Approval #8 which requires each of the two additional providers to submit a Miscellaneous Plan Permit (MPP) application including updated RF emissions analysis prior to locating on the monopine. Condition of Approval #8 also specifies that if the two additional providers do not colocate on the monopine within three years of this approval, they will be subject to the standard application requirements for new colocated facilities in effect at the time of submittal. The current requirement for this type of colocation would be an MPP, but should the Code requirements change after approval of this permit, the applicant would still be able to take advantage of the staff-level MPP process for a period of three years.

### **ANALYSIS OF PROJECT DESIGN**

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The project is subject to the telecommunications design requirements in SMC Chapter 19.54. The following key policies apply to the project:

SMC 19.54.040(b). All facilities shall be designed to minimize the visual impact to the greatest extent feasible, considering technological requirements, by means of placement, screening, and camouflage, to be compatible with existing architectural elements and building materials, and other site characteristics. The applicant shall use the smallest and least visible antennas possible to accomplish the owner/operator's coverage objectives.

SMC 19.54.040(i). Where appropriate, facilities shall be installed so as to maintain and enhance existing landscaping on the site, including trees, foliage and shrubs, whether or not utilized for screening. . .

SMC 19.54.040(j). All monopoles and lattice towers shall be designed to be the minimum functional height and width required to support the proposed antenna installation.

SMC 19.54.140(a). Whenever technically feasible, wireless telecommunication service providers are encouraged to co-locate telecommunication facilities in order to reduce adverse visual impacts; however, the city discourages the development of antenna farms or the clustering of multiple antennas on a single monopole, tower or other elevation, unless the site is determined to be suitable based on the following factors:

- (1) Compliance with all FCC RF emission standards;
- (2) Visibility from residentially zoned property;
- (3) Visibility from El Camino Real or other major arterial street;
- (4) Visibility from the downtown specific plan area or other area declared by the director of community development to be visually sensitive; and
- (5) Lack of aesthetically preferable feasible alternatives.

SMC 19.54.140(d). When determined to be technically feasible and appropriate, unutilized space should be made available for co-location of other wireless telecommunication facilities, including space for entities providing similar, competing services. . .

**Discussion:** Based on the criteria in SMC 19.54, staff has determined this is an appropriate site for a colocation facility with antennas for multiple wireless telecommunications providers. The site is located in an industrial setting within a secured campus not accessible to the public. There are no nearby residential uses, and the site is not visible from El Camino Real or the downtown. Although the proposed facility is very tall, its location makes it virtually invisible from public streets (Photosimulations, Attachment E). Based on site constraints and the coverage objectives of the property owner and wireless telecommunications providers, reduced height or separate facilities were determined not to be feasible or aesthetically preferable alternatives.

The proposed telecommunications tower will be disguised as a Redwood tree (“monopine”). The monopine design is being proposed by the applicant to mitigate the facility’s visual impact, particularly given its proposed height of 112 feet. Antennas will be located within the length of the branches and painted to match the branches for a full stealth design. The applicant has worked extensively with staff on the project design with the goal of achieving a natural tree appearance including varied branch lengths, irregular branch placement, pyramidal shape with a wider base, and branches extending lower on the base of the pole. These design details are intended to prevent many of the common problems with monopine installations which can result in an unnatural and unattractive appearance (Plans, Attachment D) (Photosimulations, Attachment E). To further ensure the monopine appears as natural as possible and antennas are camouflaged to the greatest extent feasible, staff is recommending Condition of Approval #10 detailing several specific design details. These include color specifications intended to match adjacent trees as closely as possible, painting T-arms to match branches and panel antennas to match needles for more effective camouflage, and more specific detail on antenna placement within branches. To ensure the actual installation matches the photosimulations and plans, staff is recommending Condition of Approval #1 requiring conformance (Attachment B).

The proposed plans and photosimulations do not accurately depict antennas and equipment for the two future wireless providers intended to colocate on the monopine at a later date, as the details of these installations are not yet determined. As a result, staff is recommending Condition of Approval #8 which requires each of the two future providers to submit a Miscellaneous Plan Permit application including updated design drawings and photosimulations prior to locating on the monopine. This will allow staff to verify that the additional facilities comply with all design requirements and do not result in

negative visual impacts. Condition of Approval #8 also limits the approval for the two additional providers to a period of three years as noted above.

**Site Master Use Permit:** The Lockheed campus is subject to a Site Master Use Permit (SMUP) approved in 1994 and revised in 1998. Although telecommunications facilities are not specifically addressed in the SMUP, it does address the location and visibility of mechanical equipment. The proposed project meets the goals of the SMUP, as all mechanical equipment will be screened and camouflaged to the greatest extent feasible to reduce visibility from public streets.

### **EXPECTED IMPACT ON SURROUNDINGS**

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**Building Height, Location, and Aesthetics:** The proposed monopine has a height of 112 feet, exceeding the 100-foot height limit for telecommunications facilities in the MP-I Zoning District. While the proposed height is significant, the project's location and design, including the Conditions of Approval recommended by staff (Attachment B), will ensure the project will not have a negative visual impact on the surrounding area. The project will be located within the interior of Lockheed's secure campus, more than 1,000 feet from the nearest street accessible to the public, and partially screened by existing buildings. In addition, the tower will be disguised as a Redwood tree with antennas located fully within branch lengths and painted to match the branches, and will be located near several existing Redwood trees. The Federal Aviation Administration (FAA) has reviewed the proposal and certified the project poses no hazard to air navigation.

**Mechanical Equipment/Noise:** The project proposes ancillary ground equipment to be located within the new enclosure. In addition to standard equipment cabinets, up to six emergency generators are proposed to provide temporary power to the facilities as needed. The generators will be used only in the event of an emergency involving loss of power to the facilities. The project location is within a secure campus in an industrial area with no nearby residential uses. The City's existing Municipal Code noise regulations and the project location will ensure the use of equipment including temporary generators does not result in significant noise impacts on the surrounding area. City requirements are summarized in Standard Development Requirement #21 (Attachment B). Staff is also recommending Condition of Approval #16 requiring noise analysis to be performed once the facility is in operation to verify compliance with noise standards.

### **ECONOMIC DEVELOPMENT AND FISCAL IMPACT**

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No fiscal impacts other than normal fees and taxes are expected. The project is not subject to any mitigation fee requirements as it is not expected to impact the need for transportation systems, housing, or parks.

## **ENVIRONMENTAL DETERMINATION**

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A Negative Declaration has been prepared in compliance with the California Environmental Quality Act provisions and City Guidelines. An initial study has determined that the proposed project would not create any significant environmental impacts (see Attachment C, Initial Study).

## **PUBLIC CONTACT**

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**Public Contact:** Public contact was made by posting the Council agenda on the City's official-notice bulletin board outside City Hall, at the Sunnyvale Senior Center, Community Center and Department of Public Safety; and by making the agenda and report available at the Sunnyvale Public Library, the Office of the City Clerk and on the City's Web site. In addition, 24 notices were sent to property owners and tenants adjacent to the subject site. Staff was contacted by a representative of Onizuka Air Force Station, who requested additional information regarding the project's construction schedule due to possible concerns about interference with Onizuka communications equipment. Based on information provided by staff, the representative concluded that the base is anticipated to close prior to completion of the proposed facility and therefore no further analysis of potential conflicts is required.

**Planning Commission Public Hearing:** On June 28, 2010, the Planning Commission considered the subject application at a public hearing (see Attachment I, Planning Commission Minutes). The Planning Commission had several questions for staff and the applicant regarding height requirements to meet provider needs, the material of the proposed enclosure, the colors and materials of the tree pole, and whether the appearance of the tree pole will more closely resemble the architectural plans or the photosimulations. No members of the public spoke on this item. The Planning Commission voted to recommend approval of the Special Development Permit with the findings in Attachment A and the conditions in Attachment B.

## **ALTERNATIVES:**

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1. Adopt the Negative Declaration and approve the Special Development Permit with the Conditions of Approval located in Attachment B.
2. Adopt the Negative Declaration and approve the Special Development Permit with modified conditions.
3. Adopt the Negative Declaration and deny the Special Development Permit.
4. Do not adopt the Negative Declaration and direct staff as to where additional environmental analysis is required.

**RECOMMENDATION**

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Alternative 1. Adopt the Negative Declaration and approve the Special Development Permit with the Conditions of Approval located in Attachment B.

Staff was able to make the required Findings as described in Attachment A.

Reviewed by:

Hanson Hom, Director, Community Development Department  
Reviewed by: Trudi Ryan, Planning Officer  
Prepared by: Mariya Hodge, Associate Planner

Approved by:

Gary M. Luebbbers  
City Manager

**Attachments:**

- A. Recommended Findings
- B. Standard Requirements and Recommended Conditions of Approval
- C. Negative Declaration
- D. Site and Architectural Plans
- E. Photosimulations
- F. Wireless Providers' Propagation Maps
- G. Radio Frequency Emissions Analysis
- H. Applicant's Project Description and Justifications
- I. Minutes of Planning Commission Hearing on June 28, 2010

## **RECOMMENDED FINDINGS**

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In order to approve the Special Development Permit, the proposed project must meet the following findings.

1. The proposed use attains the objectives and purposes of the General Plan of the City of Sunnyvale.

*Land Use and Transportation Element, Policy N1.7 – Support the location of convenient retail and commercial services (e.g. restaurants and hotels) in industrial areas to support businesses, their customers and their employees.*

The proposed project will provide a colocated multi-provider facility which will enhance telecommunications networks on the Lockheed Martin campus and in the Moffett Park area, providing a key communication service to industrial businesses, customers, and employees.

In addition, the City Council's Telecommunications Policy promotes retention of local zoning authority when reviewing telecommunications facilities. The Zoning Code requires that the location of telecommunications facilities be designed with sensitivity to surrounding areas. The proposed facility is compliant with all wireless telecommunication development standards with the exception of a deviation requested for height to allow a 112-foot tall facility:

- The project meets all FCC RF emissions standards;
- The facility is designed as a "monopine" to provide camouflage of antennas;
- To the extent possible, the monopine is proposed to be located within an area surrounded by existing mature Redwood trees to reduce its overall impact;
- The monopine is located in an area partially screened by existing buildings and is within a secured industrial campus more than 1000 feet from the nearest street accessible by the public.

**Staff was able to make the finding above as the design meets the guidelines and design policies described above and in the report.**

2. The proposed use ensures that the general appearance of proposed structures, or the uses to be made of the property to which the application refers, will not impair the orderly development of, or the existing uses being made of, adjacent properties.

The proposed telecommunications tower will be disguised as a Redwood tree (“monopine”). The project is located within a secure campus in an industrial area more than 1000 feet from the nearest street accessible to the public. There are no surrounding residential uses. The project location and the monopine design, as shown in the plans and photosimulations and as conditioned in Attachment B, will reduce the potential visual impacts of the facility’s height to ensure it does not visually degrade the appearance of the site or surrounding areas. Ancillary ground equipment including temporary generators are subject to the requirements of the City’s noise ordinance and these requirements, combined with the project location and the recommended conditions in Attachment B, ensure the facility will not result in noise impacts on adjacent properties. The project meets federal requirements for RF emissions. Onizuka Air Force Station representatives have indicated no expected impact to their facilities as Onizuka will not be in operation once this telecommunications facility is operational.

**Staff was able to make the finding above as the project is not expected to have negative impacts on the subject site or surrounding properties.**

**RECOMMENDED  
CONDITIONS OF APPROVAL AND  
STANDARD DEVELOPMENT REQUIREMENTS  
JUNE 28, 2010**

Planning Application **2010-7095, 1111 Lockheed Martin Way**  
**Special Development Permit** for a 112-foot tall wireless telecommunications  
monopine on the Lockheed Martin Campus

The following Conditions of Approval [COA] and Standard Development Requirements [SDR] apply to the project referenced above. The COAs are specific conditions applicable to the proposed project. The SDRs are items which are codified or adopted by resolution and have been included for ease of reference, they may not be appealed or changed. The COAs and SDRs are grouped under specific headings that relate to the timing of required compliance. Additional language within a condition may further define the timing of required compliance. Applicable mitigation measures are noted with “Mitigation Measure” and placed in the applicable phase of the project.

In addition to complying with all applicable City, County, State and Federal Statutes, Codes, Ordinances, Resolutions and Regulations, Permittee expressly accepts and agrees to comply with the following Conditions of Approval and Standard Development Requirements of this Permit:

**THE FOLLOWING GENERAL CONDITIONS SHALL APPLY TO THE APPROVED PROJECT.**

1. **CONFORMANCE WITH APPROVED PLANNING APPLICATION** – All building permit drawings and subsequent construction and operation shall substantially conform with the approved planning application, including: drawings/plans, photosimulations, materials samples, colors, and other items submitted as part of the approved application. Any proposed amendments to the approved plans or Conditions of Approval are subject to review and approval by the City. The Director of Community Development shall determine whether revisions are considered major or minor. Minor changes are subject to review and approval by the Director of Community Development. Major changes are subject to review at a public hearing. [COA] [PLANNING]
2. **COMPLY WITH APPLICABLE REGULATIONS** – The facility must comply with any and all applicable regulations and standards promulgated or imposed by any state or federal agency, including but not limited to the

Federal Communications Commission and Federal Aviation Agency.[SDR]  
[PLANNING]

3. PERMIT EXPIRATION (Ordinance 2895-09) – The Special Development Permit shall be valid for three (3) years from the date of approval by the final review authority (as adopted by City Council on April 21, 2009, RTC 09-094). Extensions of time may be considered, for a maximum of two one year extensions, if applied for and approved prior to the expiration of the permit approval. If the approval is not exercised within this time frame, the permit is null and void. [SDR] (PLANNING)
4. TESTING WITHIN 15 DAYS – The applicant shall test any wireless telecommunications site installed in the City of Sunnyvale within 15 days of operating the tower. The test shall confirm that any Emergency 911 wireless call made through the wireless telecommunications site shall provide Enhanced 911 capability (including phase 2 information when available from the caller's device) and direct the call to the City of Sunnyvale Department of Public Safety dispatcher, ensuring phase 2 information is transferred. If the call is to be directed elsewhere pursuant to State and Federal law the applicant shall ensure that the Enhanced 911 information transfers to that dispatch center. This capability shall be routinely tested to ensure compliance as long as the approved wireless telecommunications site is in service. [SDR] [PLANNING]
5. HOLD HARMLESS – The wireless telecommunication facility provider shall defend, indemnify, and hold harmless the city or any of its boards, commissions, agents, officers, and employees from any claim, action or proceeding against the city, its boards, commission, agents, officers, or employees to attack, set aside, void, or annul, the approval of the project when such claim or action is brought within the time period provided for in applicable state and/or local statutes. The city shall promptly notify the provider(s) of any such claim, action or proceeding. The city shall have the option of coordinating in the defense. Nothing contained in this stipulation shall prohibit the city from participating in a defense of any claim, action, or proceeding if the city bears its own attorney's fees and costs, and the city defends the action in good faith. [SDR] [PLANNING]
6. LIABILITY – Facility lessors shall be strictly liable for any and all sudden and accidental pollution and gradual pollution resulting from their use within the city. This liability shall include cleanup, intentional injury or damage to persons or property. Additionally, lessors shall be responsible for any sanctions, fines, or other monetary costs imposed as a result of the release of pollutants from their operations. Pollutants include any

solid, liquid, gaseous or thermal irritant or contaminant, including smoke, vapor, soot, fumes, acids, alkalis, chemicals, and waste. Waste includes materials to be recycled, reconditioned or reclaimed. [SDR] [PLANNING]

7. NO THREAT TO PUBLIC HEALTH – The facility shall not be sited or operated in such a manner that is poses, either by itself or in combination with other such facilities, a potential threat to public health. To that end, the subject facility and the combination of on-site facilities shall not produce at any time power densities in any inhabited area that exceed the FCC’s Maximum Permissible Exposure (MPE) limits for electric and magnetic field strength and power density for transmitters or any more restrictive standard subsequently adopted or promulgated by the federal government. [SDR] [PLANNING]
8. COLOCATION OF ADDITIONAL FACILITIES – In addition to the four wireless telecommunications providers whose facilities are shown on the project plans, approval has been granted to provide space for two additional future providers to colocate on the monopine resulting in a total of six providers, subject to the following conditions:
  - a) This provision is valid for a period of three years from the date of approval by the final review authority. If the two additional providers do not exercise the provision to colocate on the monopine within this time frame, this provision shall be null and void and any proposals for colocation shall be subject to the processing requirements of the Sunnyvale Municipal Code at the time of submittal.
  - b) Prior to installation of the two additional colocated facilities within the time frame specified above, each facility operator shall submit a Miscellaneous Plan Permit (MPP) application subject to review and approval by the Director of Community Development. In addition to standard MPP application requirements, the applicants shall submit the following:
    - i) A revised Radio Frequency Emissions Report certifying that the proposed colocated facility will at all times comply with all applicable health requirements and standards pertaining to RF emissions;
    - ii) Updated project plans and photosimulations demonstrating the location and appearance of the proposed colocated facility;
    - iii) A written explanation indicating how the proposed colocated facility complies with the design requirements set forth in Condition of Approval #10 below. [COA] [PLANNING]

**THE FOLLOWING CONDITIONS SHALL BE MET PRIOR TO SUBMITTAL OF BUILDING PERMIT, AND/OR GRADING PERMIT.**

9. NOTICE OF PROJECT RESTRICTIONS – A Notice of Project Restrictions shall be filed in the official records of the County of Santa Clara prior to issuance of any City permit or allowed use of the property, as applicable. The Notice of Project Restrictions shall be prepared by the Planning Division and shall include a description of the subject property, the Planning Application number, attached conditions of approval and any accompanying subdivision or parcel map, including book and page and recorded document number, if any, and be signed and notarized by each property owner of record.

For purposes of determining the record owner of the property, the applicant shall provide the City with evidence in the form of a report from a title insurance company indicating that the record owner(s) are the person(s) who have signed the Notice of Project Restrictions. [COA] [PLANNING]

**THE FOLLOWING CONDITIONS SHALL BE ADDRESSED ON THE CONSTRUCTION PLANS SUBMITTED FOR ANY DEMOLITION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND/OR ENCROACHMENT PERMIT AND SHALL BE MET PRIOR TO THE ISSUANCE OF SAID PERMIT(S).**

10. PROJECT DESIGN – The project plans shall demonstrate compliance with the following design elements:
- a) The monopine pole shall be covered fully with “bark” material to a minimum height of 50 feet above grade. The remainder of the pole extending above this height shall be painted in a color matching the bark material.
  - b) The full depth of antennas, not just T-arms, shall be located within the monopine’s artificial branches. No portion of the telecommunications equipment shall extend beyond the length of the branches. Antennas shall be located as close to the pole as possible to provide the maximum possible branch length beyond the antennas.
  - c) Artificial branch lengths at each elevation shall be varied as shown in the approved photosimulations to achieve a natural tree appearance;

- d) The color of artificial needles on the branches shall be varied with at least three colors used to achieve a natural tree appearance. The overall effect of the varying colors shall be a very dark green appearance as similar as possible to the color of existing adjacent Redwood trees;
  - e) The T-arms supporting the antennas shall be painted to match the brown color of the artificial branches and bark.
  - f) The antennas shall be painted to match the dark green appearance of the artificial needles. Needles shall not be attached to the antennas nor shall antenna socks be used at any time.
  - g) Final design, color, and materials shall be submitted to the Director of Community Development for review and approval prior to building permit issuance. [COA] [PLANNING]
11. CONDITIONS OF APPROVAL – Final plans shall list all Conditions of Approval included as part of the approved application starting on sheet 2 of the plans. [COA] [PLANNING]
12. RESPONSE TO CONDITIONS OF APPROVAL – A written response indicating how each condition has or will be addressed shall accompany the building permit set of plans. [COA] [PLANNING]
13. BLUEPRINT FOR A CLEAN BAY – The building permit plans shall include a “Blueprint for a Clean Bay” on one full sized sheet of the plans. [SDR] [PLANNING]
14. TREE PROTECTION PLAN - Prior to issuance of a demolition permit, a grading permit or a building permit, whichever occurs first, obtain approval of a Tree Protection Plan from the Director of Community Development. Two copies are required to be submitted for review. The tree protection plan shall include measures noted in Title 19 of the Sunnyvale Municipal Code and at a minimum:
- a) An inventory shall be taken of all existing trees on the plan including the valuation of all ‘protected trees’ by a certified arborist, using the latest version of the “Guide for Plant Appraisal” published by the International Society of Arboriculture (ISA).
  - b) Indicate all existing (non-orchard) trees on the plans, showing size and varieties, and clearly specify which are to be retained.
  - c) Provide fencing around the drip line of the trees that are to be retained and ensure that no construction debris or equipment is stored within the fenced area during the course of demolition and construction.

- d) The measures specified by the tree protection plan shall be installed prior to any construction or demolition activities, subject to the on-site inspection and approval by the City Arborist, and shall be maintained in place during the duration of construction and shall be added to any subsequent building permit plans. [COA] [PLANNING/CITY ARBORIST]

**THE FOLLOWING CONDITIONS SHALL BE ADDRESSED ON THE CONSTRUCTION PLANS AND/OR SHALL BE MET PRIOR TO RELEASE OF UTILITIES OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY.**

15. RF EMISSIONS STUDIES - The applicant shall submit to the Director of Community Development at least two reports of field measurements for Radio Frequency Emissions showing: 1.) The ambient level of RF emissions before construction of the facility and 2.) The actual level of emissions after the facility is in place and operating at or near full capacity. [COA] [PLANING]
16. NOISE STUDIES - The applicant shall submit to the Director of Community Development at least two reports of field measurements for Noise Analysis showing: 1.) The noise measurement before construction of the facility and 2.) The actual noise measurement after the facility is in place and operating at or near full capacity. [COA] [PLANING]

**THE FOLLOWING CONDITIONS SHALL BE COMPLIED WITH AT ALL TIMES DURING THE CONSTRUCTION PHASE OF THE PROJECT.**

17. BLUEPRINT FOR A CLEAN BAY – The project shall be in compliance with stormwater best management practices for general construction activity until the project is completed and final occupancy has been granted. [SDR] [PLANNING]
18. TREE PROTECTION – All tree protection shall be maintained, as indicated in the approved Tree Protection Plan, until construction has been completed and final occupancy has been granted. [COA] [PLANNING]

**THE FOLLOWING CONDITIONS SHALL BE COMPLIED WITH AT ALL TIMES THAT THE USE PERMITTED BY THIS PLANNING APPLICATION OCCUPIES THE PREMISES.**

19. CERTIFICATION – Before January 31 of each even numbered year following the issuance of any authorizing establishment of a wireless telecommunication facility, an authorized representative for each wireless carrier providing service in the City of Sunnyvale shall provide written certification to the City executed under penalty of perjury that (i) each facility is being operated in accordance with the approved local and federal permits and includes test results that confirm the facility meets city noise requirements and federal RF emissions standards; (ii) each facility complies with the then-current general and design standards and is in compliance with the approved plans; (iii) whether the facility is currently being used by the owner or operator; and (iv) the basic contact and site information supplied by the owner or operator is current. [SDR] [PLANNING]
20. 10 YEAR RENEWAL – Every owner or operator of a wireless telecommunication facility shall renew the facility permit at least every ten (10) years from the date of initial approval. If a permit or other entitlement for use is not renewed, it shall automatically become null and void without notice or hearing ten (10) years after it is issued, or upon cessation of use for more than a year and a day, whichever comes first. Unless a new use permit or entitlement of use is issued, within one hundred twenty (120) days after a permit becomes null and void all improvements, including foundations and appurtenant ground wires, shall be removed from the property and the site restored to its original pre-installation condition within one hundred eighty (180) days of nonrenewal or abandonment. [SDR] [PLANNING]
21. MINIMIZE NOISE – The facility shall be operated in such a manner so as to minimize any possible disruption caused by noise. Backup generators shall only be operated during periods of power outages, and shall not be tested on weekends or holidays, or between the hours of 10:00 p.m. and 7:00 a.m. on weekday nights. At no time shall equipment noise from any source exceed an exterior noise level of 60 dB at the property line. [SDR] [PLANNING]
22. RF EMISSIONS – Certification must be provided that the proposed facility will at all times comply with all applicable health requirements and standards pertaining to RF emissions. [SDR] [PLANNING]
23. LIGHTING – Tech lights within the equipment enclosure as shown on the approved plans shall include timers providing automatic shut-off in the event the lights are left on by a technician. [COA] [PLANNING]

24. **MAINTAIN CURRENT INFORMATION** – The owner or operator shall maintain, at all times, a sign mounted on the outside fence showing the operator name, site number and emergency contact telephone number. The owner or operator of the facility shall also submit and maintain current at all times basic contact and site information on a form to be supplied by the city. The applicant shall notify city of any changes to the information submitted within thirty (30) days of any change, including change of the name or legal status of the owner or operator. This information shall include, but is not limited to the following:
- a) Identity, including name, address and telephone number, and legal status of the owner of the facility including official identification numbers and FCC certification, and if different from the owner, the identity and legal status of the person or entity responsible for operating the facility.
  - b) Name, address and telephone number of a local contact person for emergencies.
  - c) Type of service provided. [SDR] [PLANNING]
25. **GOOD REPAIR** – All facilities and related equipment, including lighting, fences, shields, cabinets, and poles, shall be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism, and any damage from any cause shall be repaired as soon as reasonably possible so as to minimize occurrences of dangerous conditions or visual blight. Graffiti shall be removed from any facility or equipment as soon as practicable, and in no instance more than forty-eight (48) hours from the time of notification by the city. [SDR] [PLANNING]
26. **RESPONSIBILITY TO MAINTAIN** – The owner or operator of the facility shall routinely and regularly inspect each site to ensure compliance with the standards set forth in the Telecommunications Ordinance. [SDR] [PLANNING]
27. **ANNUAL DESIGN INSPECTION** – The owner or operator of the facility shall inspect the monopine annually to ensure the monopine retains approximately the same shape and color as the approved original installation. Any repair or replacement needed to return the monopine to its original approved condition shall be performed by the owner or operator as soon as reasonably possible. [COA] [PLANNING]
28. **NO INTERFERENCE WITH CITY COMMUNICATION SYSTEMS** – The facility operator shall be strictly liable for interference caused by the

facility with city communication systems. The operator shall be responsible for all labor and equipment costs for determining the source of the interference, all costs associated with eliminating the interference, (including but not limited to filtering, installing cavities, installing directional antennas, powering down systems, and engineering analysis), and all costs arising from third party claims against the city attributable to the interference. [SDR] [PLANNING]



PLANNING DIVISION  
CITY OF SUNNYVALE  
P.O. BOX 3707  
SUNNYVALE, CALIFORNIA 94088-3707

**NOTICE OF INTENT TO ADOPT  
NEGATIVE DECLARATION**

This form is provided as a notification of an intent to adopt a Negative Declaration which has been prepared in compliance with the provisions of the California Environmental Quality Act of 1970, as amended, and Resolution #193-86.

**PROJECT TITLE:**

Application for **Special Development Permit** by **Anthem Telecom / Lockheed Martin Missiles & Space Co., Inc.**

**PROJECT DESCRIPTION AND LOCATION (APN):**

**2010-7095:** Special Development Permit to allow a 112' tall wireless telecommunications monopine on the Lockheed Martin campus including antennas for up to 6 carriers and associated ground equipment within a new enclosure.

**WHERE TO VIEW THIS DOCUMENT:**

The **Negative Declaration**, its supporting documentation and details relating to the project are on file and available for review and comment in the Office of the Secretary of the Planning Commission, City Hall, 456 West Olive Avenue, Sunnyvale.

This **Negative Declaration** may be protested in writing by any person prior to 5:00 p.m. on **Tuesday, July 20, 2010**. Protest shall be filed in the Department of Community Development, 456 W. Olive Avenue, Sunnyvale and shall include a written statement specifying anticipated environmental effects which may be significant. A protest of a **Negative Declaration** will be considered by the adopting authority, whose action on the protest may be appealed.

**HEARING INFORMATION:**

A public hearing on the project is scheduled for:

**Monday, June 28, 2010** at 8:00 p.m. and **Tuesday, July 20, 2010** at 7:00 p.m. in the Council Chambers, City Hall, 456 West Olive Avenue, Sunnyvale.

**TOXIC SITE INFORMATION:**

(No) listed toxic sites are present at the project location.

Circulated On June 4, 2010

Signed:

  
Gerri Caruso, Principal Planner



### California Environmental Quality Act Initial Study

Project Title	Special Development Permit #2010-7095
Lead Agency Name and Address	City of Sunnyvale P.O. Box 3707, Sunnyvale, CA 94088-3707
Contact Person	Mariya Hodge, Associate Planner
Phone Number	(408) 730-7659
Project Location	Lockheed Martin Missiles & Space Co. Campus, located north of Highway 237 adjacent to Moffett Field along the City's northwest border
Applicant's Name	Anthem Telecom / Lockheed Martin Missiles & Space Co., Inc.
Project Address	1111 Lockheed Martin Way, Sunnyvale, CA 94089
Zoning	MP-I (Moffett Park - Industrial)
General Plan	MP (Moffett Park Specific Plan)
Other Public Agencies whose approval is required	N/A

**DETAILED DESCRIPTION OF THE PROJECT:** The proposed project is a new wireless telecommunications tower with a total height of 112 feet to be located on the Lockheed Martin Missiles & Space Co. ("Lockheed") Campus. The proposed wireless telecommunications tower will be disguised as a Redwood tree. The tower will provide facilities for four wireless telecommunications providers at the time of installation, and will include space for two additional providers to be colocated on the same tower at a later time. The four currently proposed providers will install a total of 41 panel antennas on the tower, fully concealed within the branches of the faux Redwood tree and painted to match the branches.

The installation will occur within a new approximately 4,390 square foot enclosure located in an existing paved parking area between Lockheed Buildings 149 and 153. The enclosure will consist of eight-foot tall chain link fencing and will be placed near a line of existing 50- to 62-foot tall Redwood trees. Ancillary ground equipment will be located within six lease areas within the enclosure. The four currently-proposed providers will locate 24 equipment cabinets, one 200 square foot equipment shelter, and one emergency generator within their four lease areas. Plug-in facilities will be provided for three additional emergency generators for a total of four generators (one per provider). Lease areas within the enclosure are also provided for the two anticipated future providers which are expected to locate additional equipment and up to two emergency generators within the enclosure.

The site context is Lockheed's existing 414-acre campus. The site is developed with office, manufacturing, and R&D buildings including high-bay facilities. The project area is within the secured portion of Lockheed's campus which is accessible only by employees, contractors, and authorized escorted visitors. The project area is located more than 1,000 feet from the nearest street accessible to the public. Surrounding uses are industrial, R&D, and office facilities within the Moffett Park Specific Plan area. There are no surrounding residential uses.

#### EVALUATION OF ENVIRONMENTAL IMPACTS:

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g. the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g. the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
4. "Negative Declaration: Potentially Significant Unless Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section 17, "Earlier Analysis," may be cross-referenced).
5. Earlier analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063 (c) (3) (d). In this case, a brief discussion should identify the following:
6. Earlier Analysis Used. Identify and state where they are available for review.
7. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
8. Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
9. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g. general plans, zoning ordinances). References to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Aesthetics             | <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Public Services                    |
| <input type="checkbox"/> Agricultural Resources | <input type="checkbox"/> Hydrology/Water Quality       | <input type="checkbox"/> Recreation                         |
| <input type="checkbox"/> Air Quality            | <input type="checkbox"/> Land Use/Planning             | <input type="checkbox"/> Transportation/Traffic             |
| <input type="checkbox"/> Biological Resources   | <input type="checkbox"/> Mineral Resources             | <input type="checkbox"/> Utilities/Service Systems          |
| <input type="checkbox"/> Cultural Resources     | <input type="checkbox"/> Noise                         | <input type="checkbox"/> Mandatory Findings of Significance |
| <input type="checkbox"/> Geology/Soils          | <input type="checkbox"/> Population/Housing            |   |

**MANDATORY FINDINGS OF SIGNIFICANCE (see checklist for further information):**

Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?  Yes  No

Mandatory Findings of Significance? Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of the past projects, the effects of other current projects, and the effects of probable future projects)?  Yes  No

Mandatory Findings of Significance? Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?  Yes  No

**DETERMINATION:**

On the basis of this initial evaluation:

I find that the proposed project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A **MITIGATED NEGATIVE DECLARATION** will be prepared.

I find that the proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.

I find that the proposed project **MAY** have a "potential significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the effects that remain to be addressed.

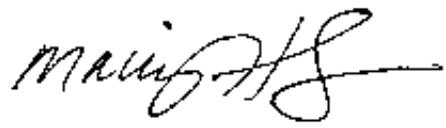
I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed in an earlier EIR or **NEGATIVE DECLARATION** pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier EIR or **NEGATIVE DECLARATION**, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Checklist Preparer: Mariya Hodge

Date: 6/2/2010

Title: Associate Planner

City of Sunnyvale

Signature: 

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
1. Aesthetics -Substantially damage scenic resources, including, but not limited to trees, historic buildings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale General Plan Map, Open Space Sub-element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
2. Aesthetics -Substantially degrade the existing visual character or quality of the site and its surroundings including significant adverse visual changes to neighborhood character?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sunnyvale General Plan Map, Open Space Sub-element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
3. Aesthetics -Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale General Plan Map, Open Space Sub-element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
4. Population and Housing - Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure) in a way that is inconsistent with the Sunnyvale General Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Land Use and Transportation Element of the General Plan, General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
5. Population and Housing - Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Housing Sub-Element, Land Use and Transportation Element and General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
6. Population and Housing - Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Housing Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
7. Land Use Planning - Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
8. Land Use Planning conflict - With the Sunnyvale General Plan, Zoning Ordinance, San Francisco Bay Conservation and Development Commission (BCDC) area or related specific plan adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Land Use and Transportation Element, Sunnyvale General Plan, Title 19 (Zoning) of the Sunnyvale Municipal Code <a href="http://qcode.us/codes/sunnyvale/view.php?topic=19&amp;frames=off">http://qcode.us/codes/sunnyvale/view.php?topic=19&amp;frames=off</a>
9. Transportation and Traffic - Result in inadequate parking capacity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Parking Requirements (Section 19.46) in the Sunnyvale Municipal Code <a href="http://qcode.us/codes/sunnyvale/view.php?topic=19-4-19_46&amp;frames=off">http://qcode.us/codes/sunnyvale/view.php?topic=19-4-19_46&amp;frames=off</a>
10. For a project located the Moffett Field AICUZ or an airport land use plan, or where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Moffett Field AICUZ, Sunnyvale Zoning Map, Sunnyvale General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
11. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There are no private airstrips in or in the vicinity of Sunnyvale
12. For a project within the vicinity of Moffett Federal Airfield, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Moffett Field AICUZ, Sunnyvale Zoning Map, Sunnyvale General Plan Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
13. Agricultural Resources - Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Zoning Map <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
14. Noise - Exposure of persons to or generation of noise levels in excess of standards established in the Noise Sub-Element, Noise limits in the Sunnyvale Municipal Code, or applicable standards of the California Building Code?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sunnyvale Noise Sub-element, SMC <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> 19.42 Noise Ordinance <a href="http://gcode.us/codes/sunnyvale/view.php?topic=19&amp;frames=off">http://gcode.us/codes/sunnyvale/view.php?topic=19&amp;frames=off</a>
15. Noise -Exposure of persons to or generation of excessive groundborne vibration?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Noise Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
16. Noise - A substantial permanent or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Noise Sub-element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
17. Biological Resources - Have a substantially adverse impact on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	General Plan Map Project Description
18. Biological Resources -Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	General Plan Map Project Description

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
19. Biological Resources -Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established native resident migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	General Plan Map Project Description
20. Biological Resources -Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SMC 19.90 Tree Preservation Ordinance Sunnyvale Inventory of Heritage Trees
21. Biological Resources -Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
22. Historic and Cultural Resources - Cause a substantial adverse change in the significance of a historical resource or a substantial adverse change in an archeological resource?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Heritage Preservation Sub-Element, Sunnyvale Inventory of Heritage Resources The United States Secretary of the Interior's "Guidelines for Rehabilitation" Criteria of the National Register of Historic Places
23. Historic and Cultural Resources - Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
24. Public Services - Would the project result in substantial adverse physical impacts associated with the provision of new or expanded public schools, the construction of which could cause significant environmental impacts, in order to maintain acceptable performance objectives?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The following public school districts are located in the City of Sunnyvale: Fremont Union High School District, Sunnyvale Elementary School District, Cupertino Union School District and Santa Clara Unified School District. Project Description
25. Air Quality - Conflict with or obstruct implementation of the BAAQMD air quality plan? How close is the use to a major road, hwy. or freeway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Sunnyvale General Plan Map Sunnyvale Air Quality Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
26. Air Quality - Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Project Description
27. Air Quality -Would the project conflict with any applicable plan, policy or regulation of any agency adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Project Description
28. Air Quality -Violate any air quality standard or contribute substantially to an existing or projected air quality violation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Sunnyvale Air Quality Sub-Element Project Description
29. Air Quality -Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Sunnyvale Air Quality Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description

Planning	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
30. Air Quality -Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BAAQMD CEQA Guidelines Sunnyvale Air Quality Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
31. Seismic Safety -Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Santa Clara County Geologic Hazard Zones Maps California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code
32. Seismic Safety - Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code
33. Seismic Safety-Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code
34. Seismic Safety-Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Santa Clara County Geologic Hazard Zones Maps California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code

Transportation	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
35. Exceeds the capacity of the existing circulation system, based on an applicable measure of effectiveness (as designated in a general plan policy, ordinance, etc.), taking into account all modes of transportation including nonmotorized travel and all relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian walkways, bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	City's Land Use and Transportation Element, Santa Clara County Transportation Plan, and AASHTO: A Policy on Geometric Design of Highways and Streets.
36. Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measurements, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Santa Clara County Congestion Management Program and Technical Guidelines (for conducting TIA and LOS thresholds).
37. Results in a change in air traffic patterns, including either an increase in air traffic levels or a change in flight patterns or location that results in substantial safety risks to vehicles, bicycles, or pedestrians?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale General Plan including the Land Use and Transportation Element
38. Substantially increase hazards to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	City and CA Standard Plans & Standard Specifications
39. Conflict with adopted policies, plans, or programs regarding public transit or nonmotorized transportation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Bicycle Plan, VTA Bicycle Technical Guidelines, and VTA Short Range Transit Plan

Transportation	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
40. Affect the multi-modal performance of the highway and/or street and/or rail and/or off road nonmotorized trail transportation facilities, in terms of structural, operational, or perception-based measures of effectiveness (e.g. quality of service for nonmotorized and transit modes)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VTA Community Design and Transportation Manual, and Sunnyvale Neighborhood Traffic Calming Program.
41. Reduce, sever, or eliminate pedestrian or bicycle circulation or access, or preclude future planned and approved bicycle or pedestrian circulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Bicycle Plan, Pedestrian and Bicycle Opportunities Studies and associated capital projects.
42. Cause a degradation of the performance or availability of all transit including buses, light or heavy rail for people or goods movement?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VTA Transit Operations Performance Report, VTA Short Range Transit Plan, and Valley Transportation Plan for 2035.
Building	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
43. Hydrology and Water Quality - Place housing within a 100-year floodplain, as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FEMA Flood Insurance Rate Map Effective 5/18/09 <a href="http://www.sunnyvalebuilding.com">www.sunnyvalebuilding.com</a> , California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code Project Description
44. Hydrology and Water Quality - Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FEMA Flood Insurance Rate Map Effective 5/18/09 <a href="http://www.sunnyvalebuilding.com">www.sunnyvalebuilding.com</a> , California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code Project Description

Building	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
45. Hydrology and Water Quality - Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1995 ABAG Dam Inundation Map <a href="http://www.abag.ca.gov">www.abag.ca.gov</a> California Building Code, Title 16 (Building) of the Sunnyvale Municipal Code Project Description
46. Geology and Soils -Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Municipal Code 12.60, Storm Water Quality Best Sunnyvale Management Practices Guideline Manual Project Description
47. Geology and Soils -Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Safety and Seismic Safety Sub-Element, <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> , California Plumbing, Mechanical, and Electrical Codes and Title 16 (Building) of the Sunnyvale Municipal Code
48. Geology and Soils -Be located on expansive soil, as defined by the current building code, creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	California Plumbing, Mechanical, and Electrical Codes and Title 16 (Building) of the Sunnyvale Municipal Code
Engineering	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
49. Utilities and Service Systems: Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Sunnyvale Wastewater Management Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
50. Utilities and Service Systems: Require or result in construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Sunnyvale Waste Water Management Sub-Element Water Resources Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>

Engineering	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
51. Utilities and Service Systems: Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Sunnyvale Waste Water Management Sub-Element Water Resources Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
52. Utilities and Service Systems: Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Water Resources Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
53. Utilities and Service Systems: Result in a determination by the wastewater treatment provider which services or may serve the project determined that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Sunnyvale Wastewater Management Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
54. Utilities and Service Systems: Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Solid Waste Management Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
55. Hydrology and Water Quality - Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Regional Water Quality Control Board (RWQCB) Region 2 Municipal Regional Permit

Engineering	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
56. Hydrology and Water Quality - Substantially degrade groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Santa Clara Valley Water District Groundwater Protection Ordinance <a href="http://www.valleywater.org">www.valleywater.org</a>
57. Hydrology and Water Quality - Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project description Water Resources Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
58. Hydrology and Water Quality - Create or contribute runoff which would exceed the capacity of existing or planned storm water drainage systems in a manner which could create flooding or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	RWQCB, Region 2 Municipal Regional Permit, Stormwater Quality BMP Guidance Manual for New and Redevelopment Projects <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
59. Hydrology and Water Quality - Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Santa Clara Valley Water District (SCVWD) Guidelines and Standards for Land Use Near Streams <a href="http://www.valleywater.org">www.valleywater.org</a> City of Sunnyvale Stormwater Quality Best Management Practices (BMP) Guidance Manual for New and Redevelopment Projects <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
60. Utilities and Service Systems: Comply with federal, state, and local statues and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solid Waste Management Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>

Engineering	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
<p>61. Public Services Infrastructure? Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
<p>Public Safety – Hazardous Materials</p>	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
<p>62. Public Services Police and Fire protection - Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sunnyvale Law Enforcement Sub-Element Sunnyvale Fire Services Sub-Element Safety and Seismic Safety Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>
<p>63. Public Services Police and Fire protection - Would the project result in inadequate emergency access?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	California Building Code SMC Section 16.52 Fire Code

Public Safety – Hazardous Materials	Potentially Significant Impact	Less than Sig. with Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
64. Hazards and Hazardous Materials - Create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
65. Hazards and Hazardous Materials - Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
66. Hazards and Hazardous Materials - Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description
67. Hazards and Hazardous Materials - Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Project Description Hazardous Waste & Substances List (State of California) List of Known Contaminants in Sunnyvale
68. Hazards and Hazardous Materials - Impair implementation of, or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Seismic Safety and Safety Sub-Element of the Sunnyvale General Plan <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a>

Community Services	Potentially Significant Impact	Less than Sig. With Mitigation	Less Than Significant	No Impact	Source Other Than Project Description and Plans
69. Public Services Parks? Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Open Space & Recreation Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
70. Recreation - Would the project increase the use of existing neighborhood or regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Open Space & Recreation Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description
71. Recreation - Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Open Space & Recreation Sub-Element <a href="http://www.sunnyvaleplanning.com">www.sunnyvaleplanning.com</a> Project Description

**Further Discussion of "Less Than Significant" impacts with or without mitigation:**

2. Aesthetics: The proposed telecommunications tower will be located within the interior of Lockheed's secure campus, more than 1000 feet from the nearest street accessible to the public, and partially screened by existing buildings. As a result, the tower will not be readily visible to the public. In addition, the tower will be disguised as a Redwood tree with antennas located fully within branch lengths and painted to match the branches, and will be located near several existing Redwood trees. The design and location of the proposed tower ensure it will not substantially degrade the visual character or quality of the site or surrounding area. Expected aesthetic impacts are less than significant with no mitigation needed.

14. Noise: The project will introduce short-term and temporary additional sources of noise to the project area during construction. The project area is located within a secure campus in the Moffett Park Industrial area north of Highway 237. Surrounding uses are industrial, office, and R&D; there are no nearby residential uses. The City's existing Municipal Code noise regulations and the project location will ensure the impact of construction noise is less than significant with no mitigation needed.

The project may also introduce short-term and temporary additional sources of noise to the project area as a result of emergency generators to be located within the provider lease areas. Up to six emergency generators are proposed to be located in the project area to provide temporary emergency power to the facility. The generators will be used only for periodic testing and for use in an emergency. The project area is located within a secure campus in the Moffett Park Industrial area north of Highway 237. Surrounding uses are industrial, office, and R&D; there are no nearby residential uses. The City's existing Municipal Code noise regulations and the project location will ensure the impact of temporary generator noise is less than significant with no mitigation needed.

RF Emissions: The proposed telecommunications facility is subject to Federal Communications Commission (FCC) limits and standards for human exposure to radio frequency (RF) emissions. The applicant has submitted a RF exposure study, prepared by Lawrence Behr Associates, indicating compliance with these Federal requirements. As a result, no impact related to RF emissions is anticipated and no mitigation is needed.

Responsible Division: Planning

Completed by: Mariya Hodge

Date: 6/2/2010

Note: All references are the most recent version as of the date the Initial Study was completed.

**City of Sunnyvale General Plan:**

- A. General Plan Map
- B. Air Quality Sub-Element (1993)
- C. Arts Sub-Element (1995)
- D. Community Design Sub-Element (1990)
- E. Community Engagement Sub-Element (2007)
- F. Fire Services Sub-Element (1995)
- G. Community Vision (2007)
- H. Fiscal Sub-Element (2006)
- I. Heritage Preservation Sub-Element (1995)
- J. Housing & Community Revitalization Sub-Element (2009)
- K. Land Use & Transportation Sub-Element (1997)  
*Revised 4/28/09 with Allocation of Street Space Policies*
- L. Law Enforcement Sub-Element (1995)
- M. Legislative Management Sub-Element (1999)
- N. Library Sub-Element (2003)
- O. Noise Sub-Element (1997)
- P. Open Space and Recreation Sub-Element (2006)  
*Updated with Parks of the Future Study 4/28/2009.  
Revised 4/24/09.*
- Q. Safety & Seismic Safety Sub-Element (2008)
- R. Socio-Economic Sub-Element (1989)
- S. Solid Waste Management Sub-Element (1996)
- T. Support Services Sub-Element (1988)
- U. Surface Run-off Sub-Element (1993)
- V. Wastewater Management Sub-Element (1996)
- W. Water Resources Sub-Element (2008)

**City of Sunnyvale Municipal Code:**

- A. Title 8 Health and Sanitation
- B. Title 9 Public Peace, Safety or Welfare
- C. Title 10 Vehicles and Traffic
- D. Title 12 Water and Sewers
- E. Chapter 12.60 Storm Water Management
- F. Title 13 Streets and Sidewalks
- G. Title 16 Buildings and Construction
- H. Chapter 16.52 Fire Code
- I. Chapter 16.54 Building Standards for Buildings Exceeding Seventy-Five Feet in Height
- J. Title 18 Subdivisions
- K. Title 19 Zoning
- L. Chapter 19.28 Downtown Specific Plan District
- M. Chapter 19.29 Moffett Park Specific plan District
- N. Chapter 19.39 Green Building Regulations
- O. Chapter 19.42 Operating Standards

- P. Chapter 19.54 Wireless Telecommunication Facilities
- Q. Chapter 19.81 Streamside Development Review
- R. Chapter 19.96 Heritage Preservation
- S. Title 20 Hazardous Materials

**Specific Plans:**

- A. Downtown Specific Plan
- B. El Camino Real Precise Plan
- C. Lockheed Site Master Use Permit
- D. Moffett Park Specific Plan
- E. 101 & Lawrence Site Specific Plan
- F. Southern Pacific Corridor Plan
- G. Lakeside Specific Plan
- H. Arques Campus Specific Plan

**Environmental Impact Reports:**

- A. Futures Study Environmental Impact Report
- B. Lockheed Site Master Use Permit Environmental Impact Report
- C. Tasman Corridor LRT Environmental Impact Study (supplemental)
- D. Kaiser Permanente Medical Center Replacement Center Environmental Impact Report (City of Santa Clara)
- E. Downtown Development Program Environmental Impact Report
- F. Caribbean-Moffett Park Environmental Impact Report
- G. Southern Pacific Corridor Plan Environmental Impact Report
- H. East Sunnyvale ITR General Plan Amendment EIR
- I. Palo Alto Medical Foundation Medical Clinic Project EIR
- J. Luminaire (Lawrence Station Road/Hwy 237 residential) EIR
- K. NASA Ames Development Plan Programmatic EIS
- L. Mary Avenue Overpass EIR
- M. Mathilda Avenue Bridge EIR

**Maps:**

- A. General Plan Map
- B. Zoning Map
- C. City of Sunnyvale Aerial Maps
- D. Flood Insurance Rate Maps (FEMA)
- E. Santa Clara County Assessors Parcel

## ENVIRONMENTAL CHECKLIST REFERENCE

Note: All references are the most recent version as of the date the Initial Stu

- F. Utility Maps
- G. Air Installations Compatible Use Zones (AICUZ) Study Map
- H. Noise Sub-Element Appendix A 2010 Noise Conditions Map

### Lists / Inventories:

- A. Sunnyvale Cultural Resources Inventory List
- B. Heritage Landmark Designation List
- C. Santa Clara County Heritage Resource Inventory
- D. Hazardous Waste & Substances Sites List (State of California)
- E. List of Known Contaminants in Sunnyvale
- F. USFWS / CA Dept. F&G Endangered and Threatened Animals of California  
<http://www.dfg.ca.gov/biogcodata/cnddb/pdfs/TEAnimals.pdf>
- G. USFWS / CA Dept. F&G Endangered, Threatened and Rare Plants of California  
<http://www.dfg.ca.gov/biogcodata/cnddb/pdfs/TEPlants.pdf>

### Legislation / Acts / Bills / Resource Agency

#### Codes and Permits:

- A. Subdivision Map Act
- B. San Francisco Bay Region Municipal Regional Stormwater NPDES Permit
- C. Santa Clara County Valley Water District Groundwater Protection Ordinance
- D. The Hazardous Waste and Substance Site List  
[www.dtsc.ca.gov/SiteCleanup/Cortese\\_List.cfm](http://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm)
- E. The Leaking Underground Petroleum Storage Tank List  
[www.geotracker.waterboards.ca.gov](http://www.geotracker.waterboards.ca.gov)
- F. The Federal EPA Superfund List  
([www.epa.gov/region9/cleanup/california.html](http://www.epa.gov/region9/cleanup/california.html))
- G. Section 404 of Clean Water Act

#### Transportation:

- A. California Department of Transportation Highway Design Manual
- B. California Department of Transportation Traffic Manual
- C. California Department of Transportation Standard Plans & Standard Specifications
- D. Highway Capacity Manual
- E. Institute of Transportation Engineers - Trip Generation Manual & Trip Generation Handbook

- F. Institute of Transportation Engineers - Traffic Engineering Handbook
- G. Institute of Transportation Engineers - Manual of Traffic Engineering Studies
- H. Institute of Transportation Engineers - Transportation Planning Handbook
- I. Institute of Transportation Engineers - Manual of Traffic Signal Design
- J. Institute of Transportation Engineers - Transportation and Land Development
- K. U.S. Dept. of Transportation Federal Highway Administration Manual on Uniform Traffic Control Devices for Street and Highways & CA Supplements
- L. California Vehicle Code
- M. Santa Clara County Congestion Management Program and Technical Guidelines
- N. Santa Clara County Transportation Agency Short Range Transit Plan
- O. Santa Clara County Transportation Plan
- P. Traffic Volume Studies, City of Sunnyvale Public Works Department of Traffic Engineering Division
- Q. Statewide Integrated Traffic Records System
- R. Sunnyvale Zoning Ordinance -- including Titles 10 & 13
- S. City of Sunnyvale General Plan -- Land Use and Transportation Element
- T. City of Sunnyvale Bicycle Plan
- U. City of Sunnyvale Neighborhood Traffic Calming Program
- V. Valley Transportation Authority Bicycle Technical Guidelines
- W. Valley Transportation Authority Community Design & Transportation -- Manual of Best Practices for Integrating Transportation and Land Use
- X. Santa Clara County Sub-Regional Deficiency Plan
- Y. City of Sunnyvale Deficiency Plan
- Z. AASHTO: A Policy on Geometric Design of Highways and Streets

#### Public Works:

- A. Standard Specifications and Details of the Department of Public Works
- B. Storm Drain Master Plan
- C. Sanitary Sewer Master Plan

Note: All references are the most recent version as of the date the Initial S

- D. Water Master Plan
- E. Solid Waste Management Plan of Santa Clara County
- F. Geotechnical Investigation Reports
- G. Engineering Division Project Files
- H. Subdivision and Parcel Map Files

**Miscellaneous Agency Plans:**

- A. ABAG Projections 2010
- B. Bay Area Clean Air Plan
- C. BAAQMD CEQA Guidelines
- J. Criteria of the National Register of Historic Places

**Building Safety:**

- A. California Building Code,
- B. California Energy Code
- C. California Plumbing Code,
- D. California Mechanical Code,
- E. California Electrical Code
- F. California Fire Code
- G. Title 16.52 Sunnyvale Municipal Code
- H. Title 16.53 Sunnyvale Municipal Code
- I. Title 16.54 Sunnyvale Municipal Code
- J. Title 19 California Code of Regulations

**Guidelines and Best Management Practices**

- A. Storm Water Quality Best Management Practices Guidelines Manual 2007
- B. Sunnyvale Citywide Design Guidelines
- C. Sunnyvale Industrial Guidelines
- D. Sunnyvale Single-Family Design Techniques
- E. Sunnyvale Eichler Guidelines
- F. Blueprint for a Clean Bay
- G. SCVWD Guidelines and Standards for Land Use Near Streams
- H. The United States Secretary of the Interior's Guidelines for Rehabilitation
- I. Criteria of the National Register of Historic Places

**Additional Project References:**

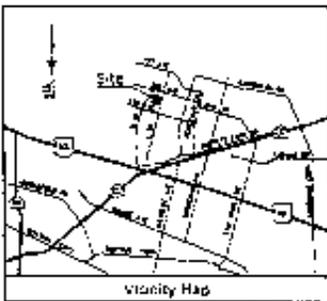
- A. Project Description
- B. Sunnyvale Project Environmental Information Form
- C. Project Development Plans dated 05/19/2010
- D. Project Traffic Impact Analysis
- E. Project Noise Study
- F. Project Air Quality Analysis

- G. Field Inspection
- H. Project Site Plan dated 05/19/2010
- I. Project construction schedule
- J. Project Draft Storm Water Management Plan
- K. Project Tree Inventory
- L. Project Tree Preservation Plan
- M. Project Green Building Checklist
- N. Project LEED Checklist

**Other:**

- A. Santa Clara County Geologic Hazard Zones Maps





**Title Report**

1/11/2011  
 1/11/2011  
 1/11/2011

**Legal Description**

THE PART OF PARCEL 1, P.M.S. 496/1-3, AREA 20-21, SEE OVERALL SITE DETAIL FOR ACCESS DETAIL.

**Assessor's Parcel No.**

001 100 000 000

**Easements**

- 1. EASEMENT FOR UTILITY PURPOSES UNDER THE STATE OF CALIFORNIA, AS SHOWN ON THE PLAT OF THE STATE OF CALIFORNIA, AS SHOWN ON THE PLAT OF THE STATE OF CALIFORNIA.
- 2. EASEMENT FOR UTILITY PURPOSES UNDER THE STATE OF CALIFORNIA, AS SHOWN ON THE PLAT OF THE STATE OF CALIFORNIA.
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**Easements**

- 1. EASEMENT FOR UTILITY PURPOSES UNDER THE STATE OF CALIFORNIA, AS SHOWN ON THE PLAT OF THE STATE OF CALIFORNIA.
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**Geographic Coordinates at Proposed Monopole**

UTM ZONE 18Q UTM EASTING 650000.000 UTM NORTHING 4500000.000

**Access Route**

Access route shown on this plan is for informational purposes only. It is not intended to be used as a legal description of the property.

**Licensed Area**

Licensee of the State of California, License No. 123456789, is authorized to perform the services shown on this plan.

**Base of Bearings**

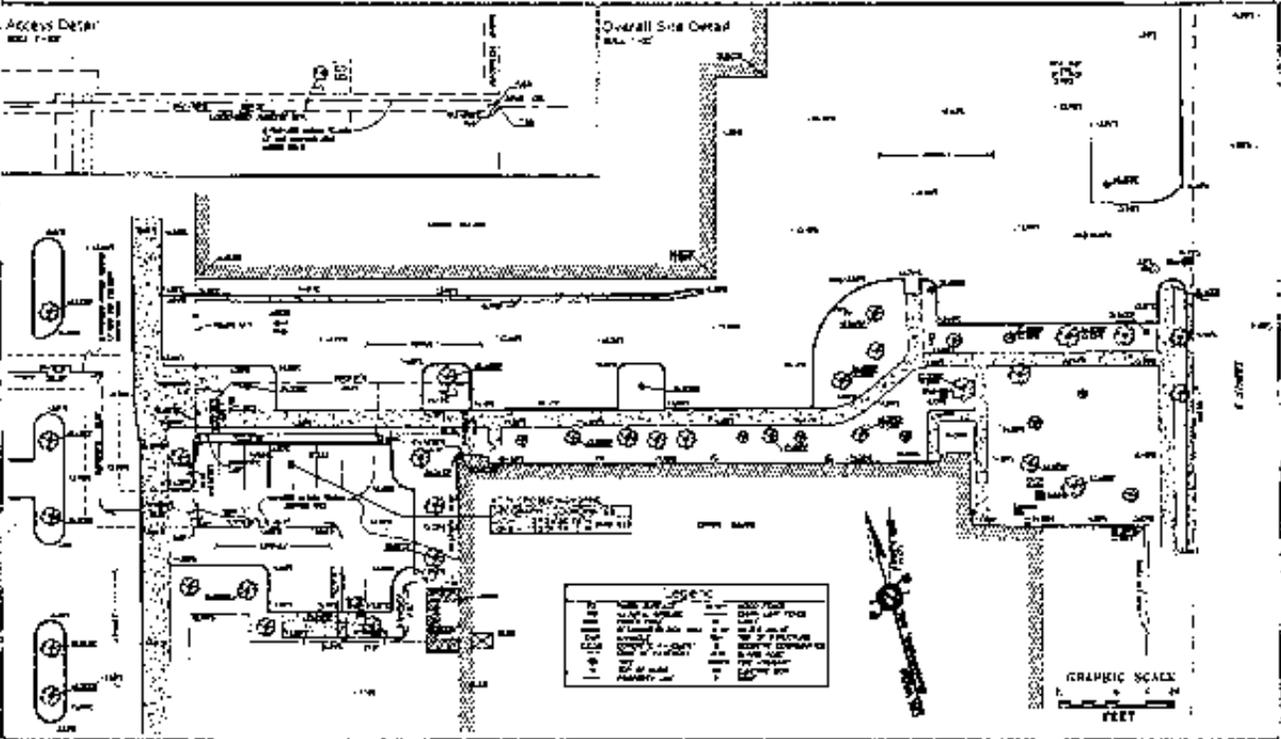
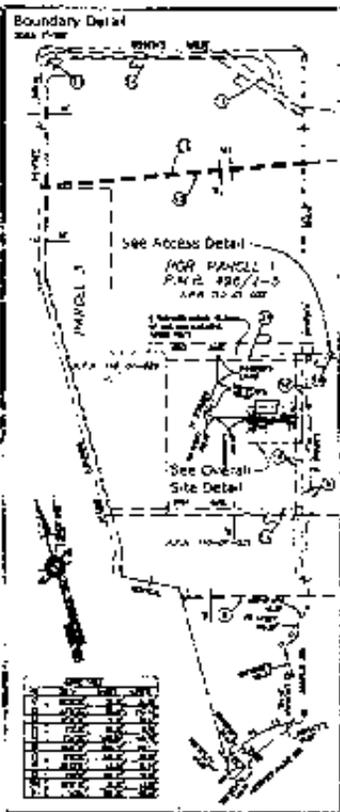
Base of bearings shown on this plan is for informational purposes only.

**Bench Mark**

Bench mark shown on this plan is for informational purposes only.

**Date of Survey**

1/11/2011



**Streamline Engineering**

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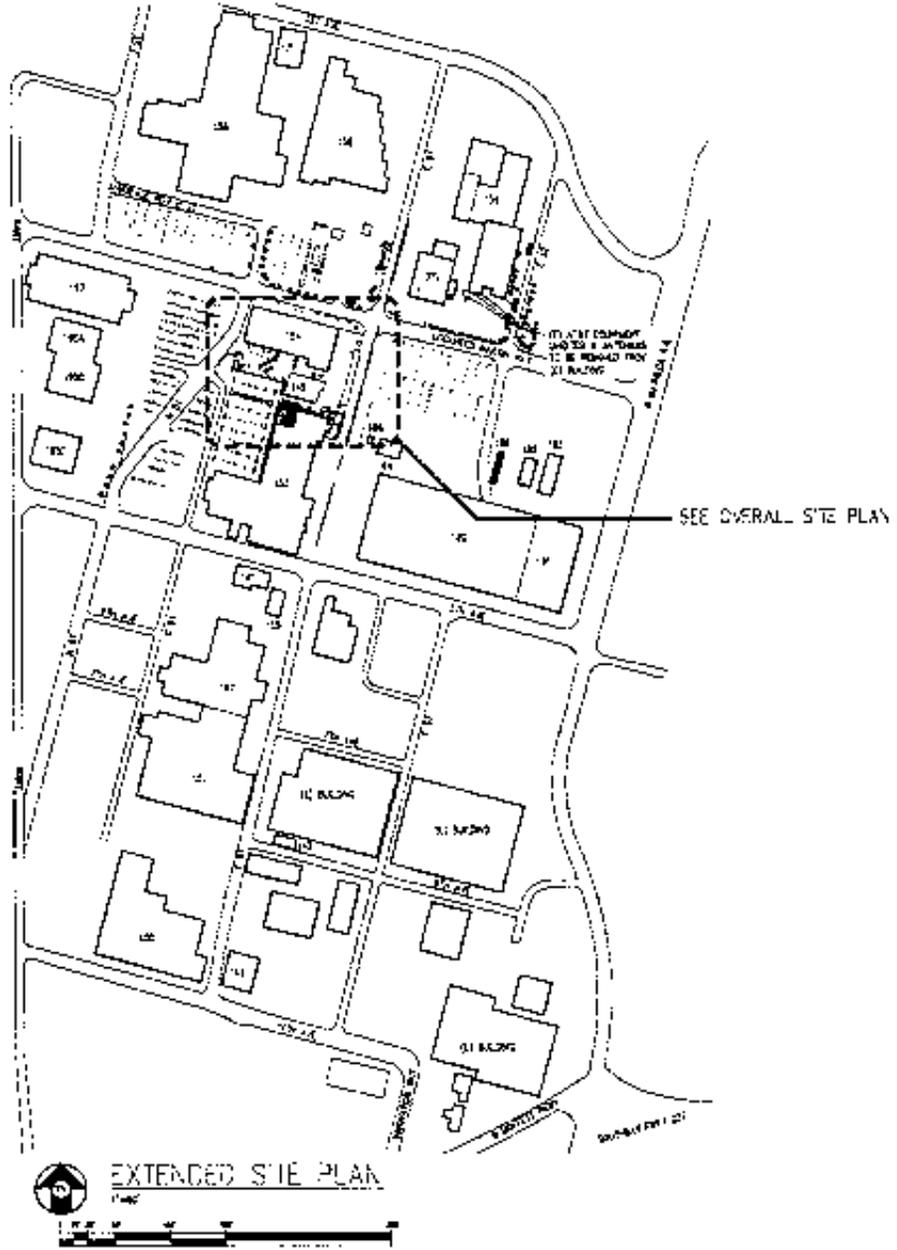
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**LOCKHEED MARTIN  
SUBXYVALE CAMPUS**

M.F.A. LOCKHEED MARTIN HAS  
A COMMITMENT TO EXCELLENCE

**ISSUE STATUS**

NO.	DATE	DESCRIPTION	STATUS
1	01/15/00	ISSUE FOR PERMITS	OPEN
2	02/15/00	ISSUE FOR PERMITS	OPEN
3	03/15/00	ISSUE FOR PERMITS	OPEN
4	04/15/00	ISSUE FOR PERMITS	OPEN
5	05/15/00	ISSUE FOR PERMITS	OPEN
6	06/15/00	ISSUE FOR PERMITS	OPEN
7	07/15/00	ISSUE FOR PERMITS	OPEN
8	08/15/00	ISSUE FOR PERMITS	OPEN
9	09/15/00	ISSUE FOR PERMITS	OPEN
10	10/15/00	ISSUE FOR PERMITS	OPEN
11	11/15/00	ISSUE FOR PERMITS	OPEN
12	12/15/00	ISSUE FOR PERMITS	OPEN
13	01/15/01	ISSUE FOR PERMITS	OPEN
14	02/15/01	ISSUE FOR PERMITS	OPEN
15	03/15/01	ISSUE FOR PERMITS	OPEN
16	04/15/01	ISSUE FOR PERMITS	OPEN
17	05/15/01	ISSUE FOR PERMITS	OPEN
18	06/15/01	ISSUE FOR PERMITS	OPEN
19	07/15/01	ISSUE FOR PERMITS	OPEN
20	08/15/01	ISSUE FOR PERMITS	OPEN
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24	12/15/01	ISSUE FOR PERMITS	OPEN
25	01/15/02	ISSUE FOR PERMITS	OPEN
26	02/15/02	ISSUE FOR PERMITS	OPEN
27	03/15/02	ISSUE FOR PERMITS	OPEN
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44	08/15/03	ISSUE FOR PERMITS	OPEN
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48	12/15/03	ISSUE FOR PERMITS	OPEN
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96	12/15/07	ISSUE FOR PERMITS	OPEN
97	01/15/08	ISSUE FOR PERMITS	OPEN
98	02/15/08	ISSUE FOR PERMITS	OPEN
99	03/15/08	ISSUE FOR PERMITS	OPEN
100	04/15/08	ISSUE FOR PERMITS	OPEN

ISSUED BY: [Signature]  
DATE: 01/15/08  
SCALE: 1/8" = 1'-0"

**Structural Engineering**  
  
 10000 Lockwood Drive, Suite 1000  
 Littleton, Colorado 80120  
 Phone: 303.755.1000  
 Fax: 303.755.1001  
 Email: [Email Address]

**ANTHEM**

1" = 100'-0"  
 1" = 50'-0"  
 1" = 25'-0"  
 1" = 12'-0"

**EXTENDED SITE PLAN**  
 1/15/08





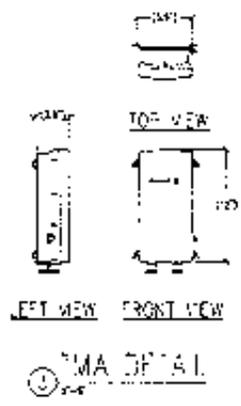
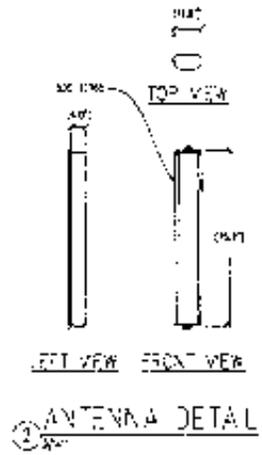
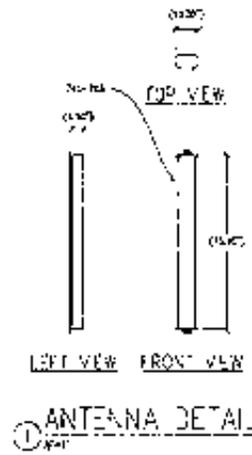
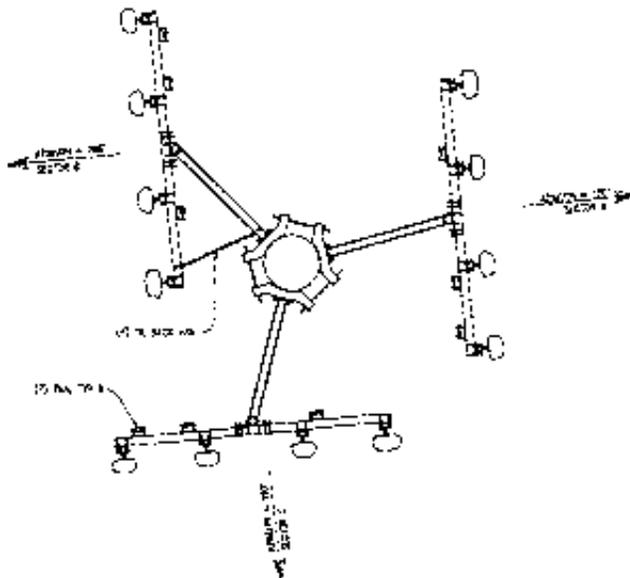






SECTOR	COAX		RF CONFIGURATION								
	#	LENGTH	SIZE	MODEL	#	MA	WR	EDT	HL	SLD	ADM.D
ALPHA	3	110'	3/4"	742-265/800-10765	3/1	3	0'	10/75	YES	70'-0"	100'
BETA	10	110'	3/4"	742-265/800-10765	3/1	3	0'	10/75	YES	10'-0"	250'
GAMMA	10	110'	3/4"	742-735/800-10765	3/1	3	0'	10/75	YES	70'-0"	190'

NOTE: CONTRACTOR TO VERIFY LATEST RF DESIGN




**AT&T ANTENNA P. AN**  
 1. SEE PLANS AND NOT TO BE USED WITHOUT  
 2. VERIFY ALL DIMENSIONS

LOCKHEED MARTIN  
SUNNYVALE CAMPUS

ISSUE STATUS

NO.	DATE	DESCRIPTION
1	02/20/00	ISSUED FOR PERMIT
2	03/15/00	REVISED FOR PERMIT
3	04/10/00	REVISED FOR PERMIT
4	05/05/00	REVISED FOR PERMIT
5	06/01/00	REVISED FOR PERMIT
6	07/01/00	REVISED FOR PERMIT
7	08/01/00	REVISED FOR PERMIT
8	09/01/00	REVISED FOR PERMIT
9	10/01/00	REVISED FOR PERMIT
10	11/01/00	REVISED FOR PERMIT
11	12/01/00	REVISED FOR PERMIT

DRAWN BY: L. L. L. L.  
 CHECKED BY: L. L. L. L.  
 APPROVED BY: L. L. L. L.  
 DATE: 01/10/01

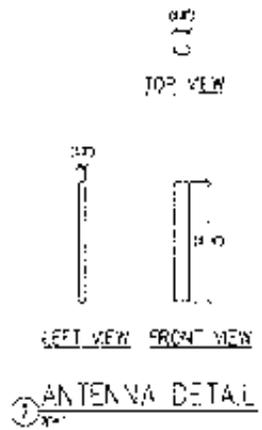
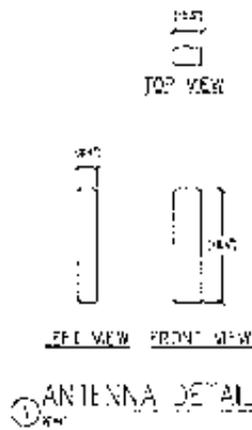
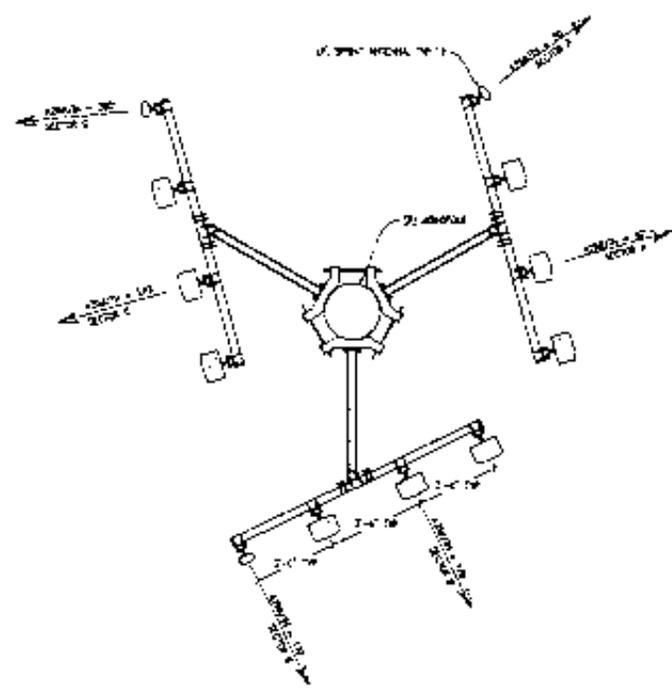
**Streamline Engineering**  
 Civil Design Division  
 10000 N. 1st Street, Suite 100  
 Phoenix, AZ 85020  
 Phone: (602) 998-1111  
 Fax: (602) 998-1112

**ANTHEM**  
 Page 9 of 16  
 ATTACHMENT D



SECTOR	RF CONFIGURATION											
	COAX			ANTENNA								
	#	LENGTH	SIZE	MODEL	#	TA	MT	EST	FEI	RAD	CONC #70/2-D	SPK #70/2-D
ALPHA	8	136'	3/4"	SEE CURRENT RFDS	4	0	0'	0'	90	97'-0"	70'	90'
BETA	8	136'	3/4"	SEE CURRENT RFDS	4	0	0'	0'	90	97'-0"	70'	170'
GAMMA	8	136'	3/4"	SEE CURRENT RFDS	4	0	0'	0'	160	57'-0"	780'	270'
DELTA	1	136'	3/4"	SEE CURRENT RFDS	1	0	0'	0'	NO	12'-0"	-	-

NOTE: CONTRACTOR TO VERIFY LATEST RF DESIGN



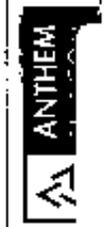
**SPRINT ANTENNA PLAN**  
 1. HUB AND LEGS TO BE BRASS MOUNTS  
 2. BRACES NOT DRAWN FOR CLARITY

LOCKHEED MARTIN  
SUNNYVALE CAMPUS

3000 LOCKHEED MARTIN WAY  
SUNNYVALE, CA 94088

ISSUE STATUS	
NO.	DATE
1	08/14/08
2	08/14/08
3	08/14/08
4	08/14/08
5	08/14/08
6	08/14/08
7	08/14/08
8	08/14/08
9	08/14/08
10	08/14/08

**Streamline Engineering**  
 CONSULTING ENGINEERS  
 10000 SHERWOOD DRIVE, SUITE 100  
 SAN DIEGO, CA 92121  
 TEL: 619-591-1111  
 FAX: 619-591-1112



15  
5/15/08

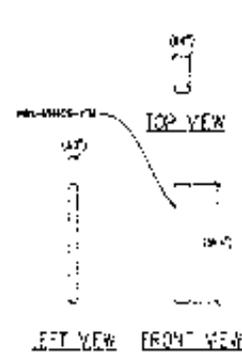
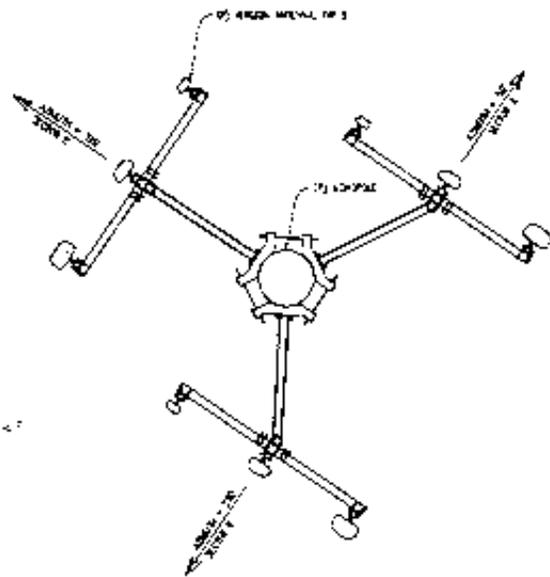




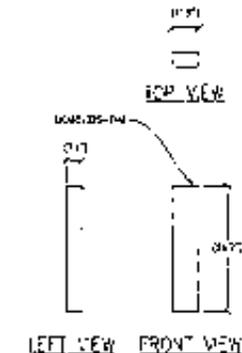


SECTION	RF CONFIGURATION										
	COAX			ANTENNA							
	#	PROT	SIZE	MODEL	#	TWA	WGT	ED	REF	RAD	ADJL
ALPHA	4/2	125	3/8" / 1/2"	SEE CURRENT RFDS	3	6	0	0	YES	75'-0"	50
BETA	4/2	125	3/8" / 1/2"	SEE CURRENT RFDS	3	3	0	0	YES	75'-0"	250
GAMMA	4/2	125	3/8" / 1/2"	SEE CURRENT RFDS	3	0	0	0	YES	75'-0"	120

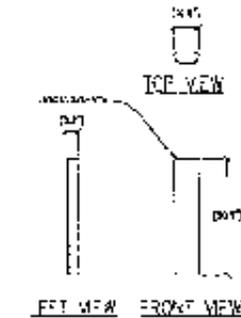
NOTE: CONTRACTOR TO VERIFY LATEST RF DESIGN



① ANTENNA DETAIL  
REV



② ANTENNA DETAIL  
REV



③ ANTENNA DETAIL  
REV



**VERIZON ANTENNA PLAN**

REV  
1. 2017 AND REACT TO THE BRONX MARCHES  
2. BRONX 101' DOWN FOR GRANT

LOCKHEED MARTIN  
SUNNYVALE CAMPUS

REV 1 LOCKHEED MARTIN

ISSUE STATUS

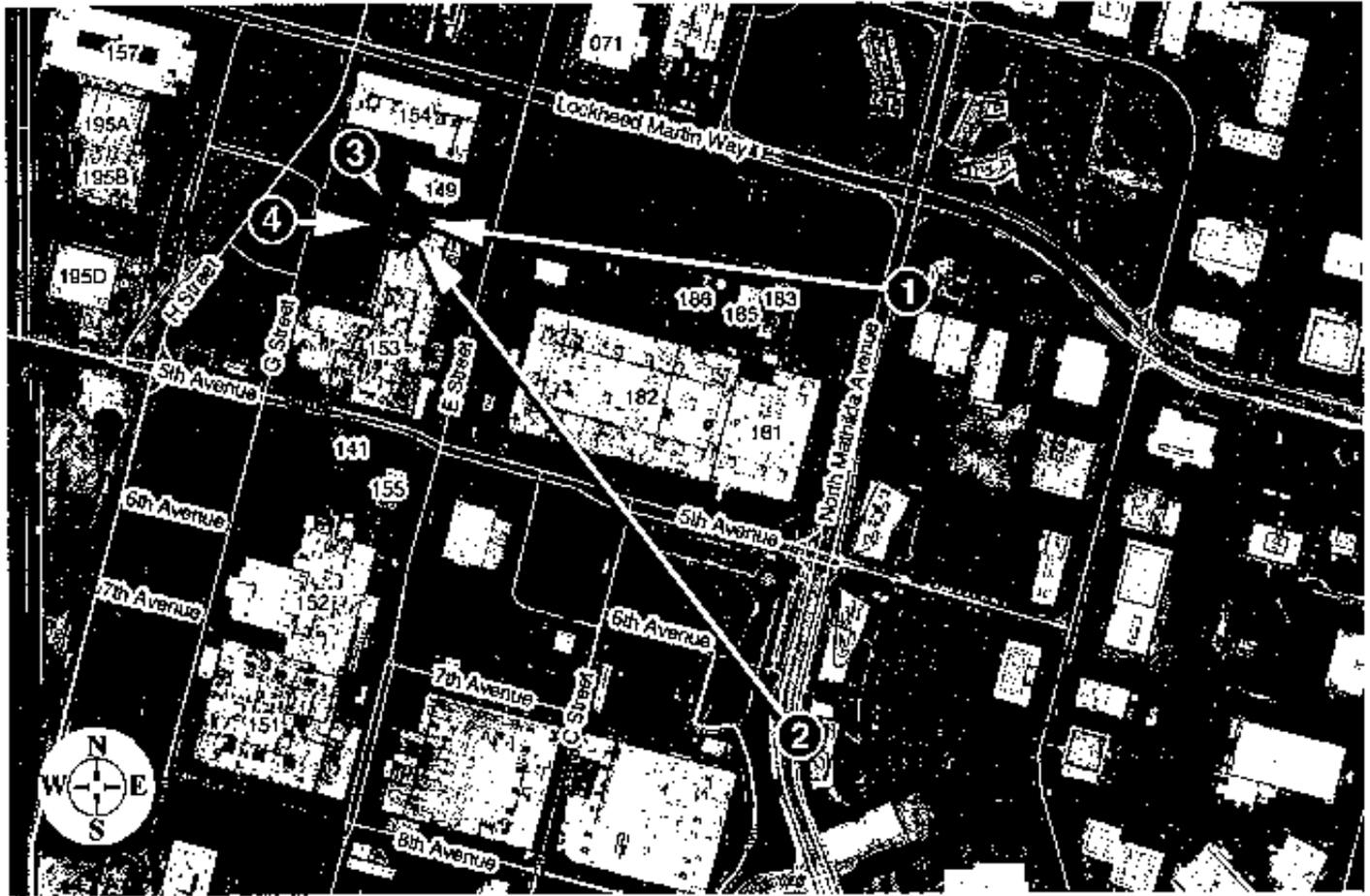
DATE	DESCRIPTION	BY
12/15/17	ISSUE	WJ
12/15/17	ISSUE	WJ
12/15/17	ISSUE	WJ

DRAWN BY: G. TIBBT  
CHECKED BY: L. HUGHES  
APPROVED BY:  
DATE: 05/01/18

**Streamline Engineering**  
Civil Design Group  
10000 E. Harvard Ave., Suite 100  
Denver, CO 80231  
Tel: 303.751.1111  
www.streamlineeng.com

**ANTHEM**  
W  
10/18/17





**Lockheed Martin Sunnyvale Campus**

**Aerial Map**

4/12/10

H St. and Lockheed Martin Way  
Sunnyvale, CA 94089

Applied Imagination 510 914-0500



Existing



Proposed



Lockheed Martin Sunnyvale Campus  
H St. and Lockheed Martin Way  
Sunnyvale, CA 94089

Looking West from North Mathilda Avenue

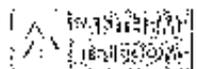


Existing



proposed treepole (beyond)

Proposed



Lockheed Martin Sunnyvale Campus

H St. and Lockheed Martin Way  
Sunnyvale, CA 94089

Looking Northwest from North Mathilda Avenue



proposed treepole



5/14/10

Lockheed Martin  
H St and Lockheed Martin Way  
Sunnyvale, CA 94089

Looking Southeast from Parking Lot

View #3

Applied Imagination S10 914-0500



Existing

proposed treepole



Proposed



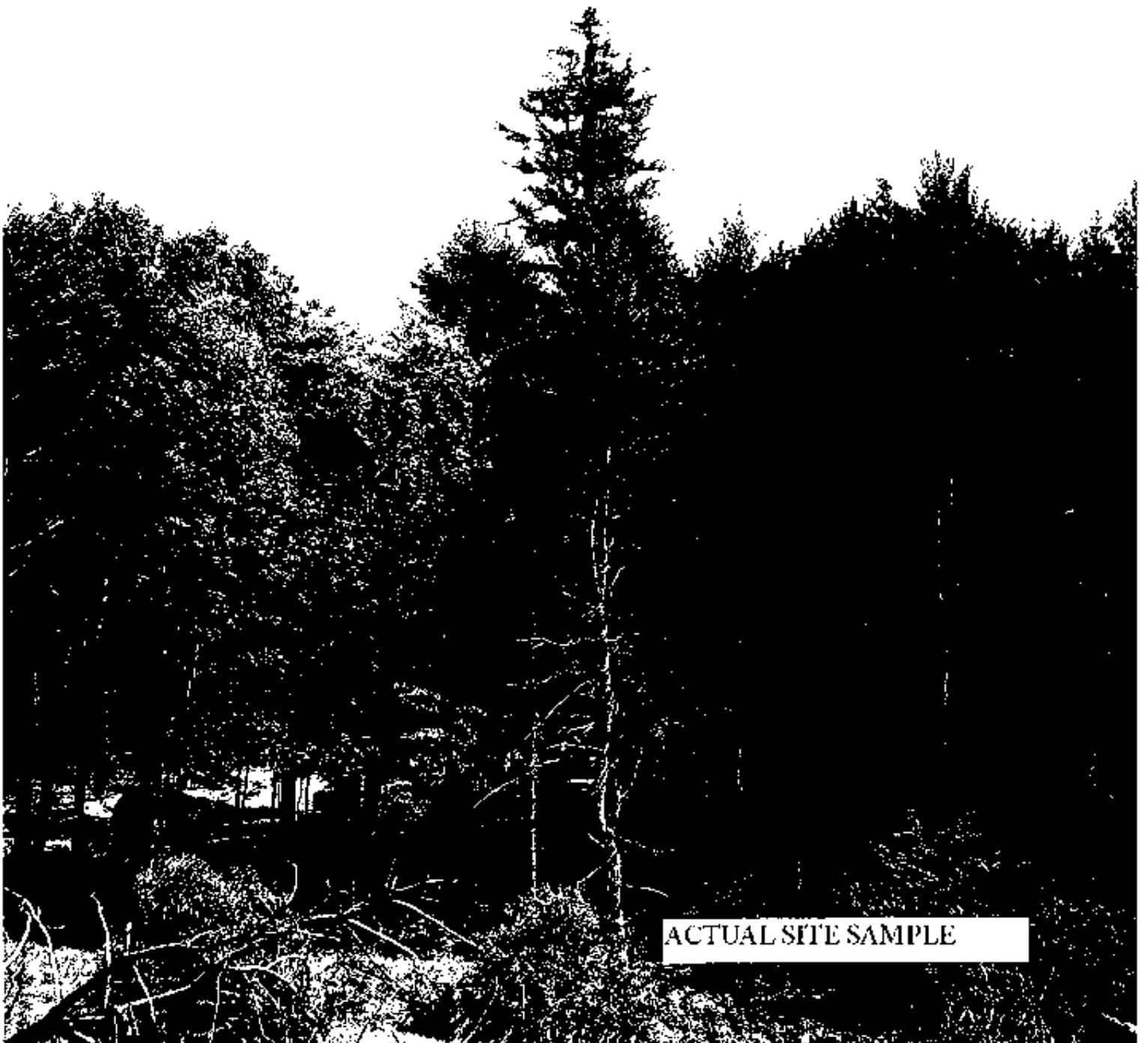
5/14/10

Lockheed Martin  
H St and Lockheed Martin Way  
Sunnyvale, CA 94089

Looking East from Parking Lot

View #4

Applied Imagination 510-814-0500



ACTUAL SITE SAMPLE

# Anthem Telecom Lockheed Martin Site Photos (page 1)



Looking southwest at the site from  
northeast of the site



Looking east from the eastern side  
of the site



Looking east from the eastern side  
of the site



Landscaping adjacent to site

# Anthem Telecom Lockheed Martin Site Photos (page 2)



Looking east from eastern side of site



Looking east from west side of site



Looking east from west side of site



Looking southeast toward site from northwest of site

# Anthem Telecom Lockheed Martin Site Photos (page 3)



Looking south toward site from  
north side of site



Existing secured entrance at north  
side of site



Looking south toward site from  
north side of site



Looking southwest toward site from  
northeast of site

# Anthem Telecom Lockheed Martin Site Photos (page 4)



Looking south at power building  
entrance



Walkway looking west toward site  
from east of site



Power room



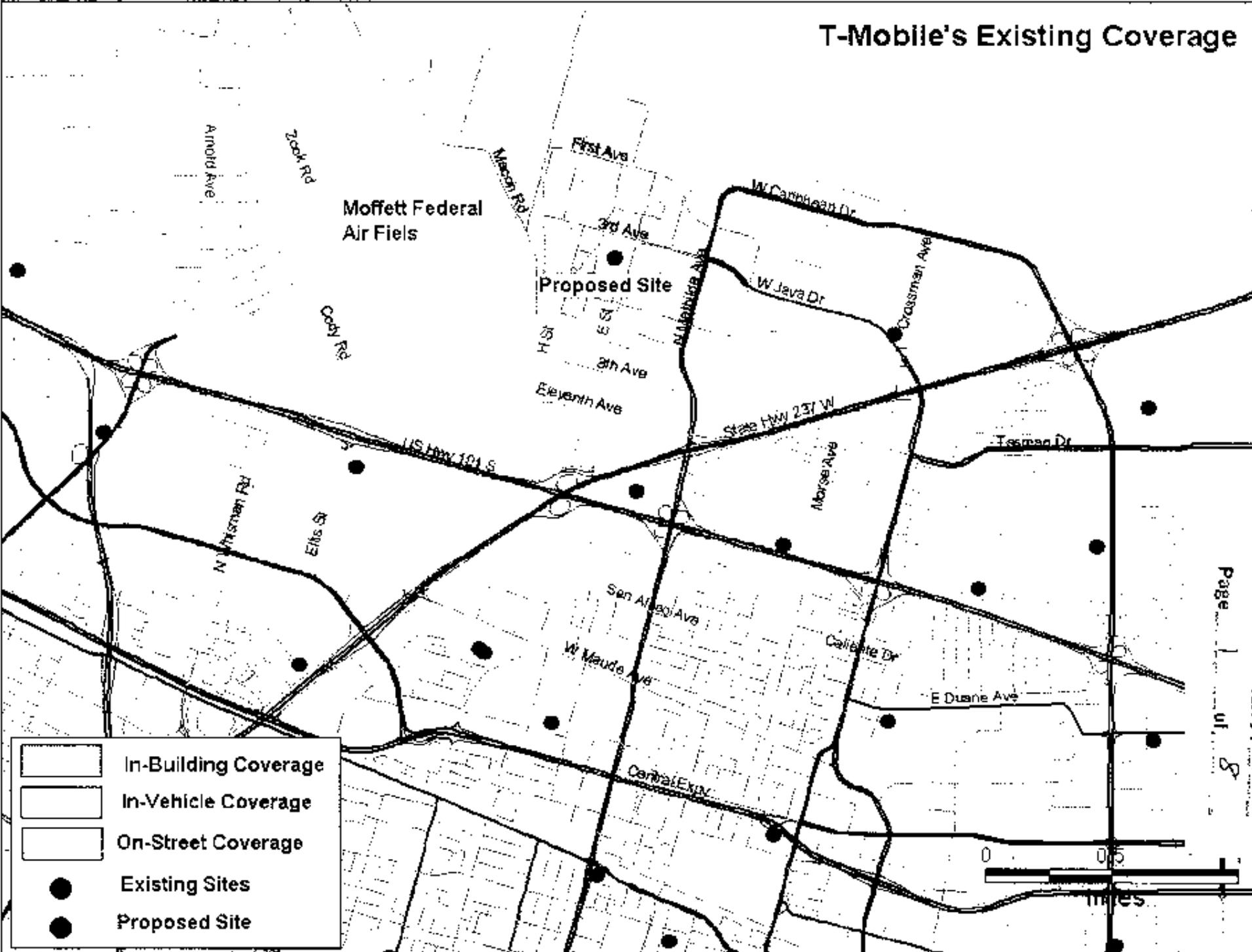
Power room

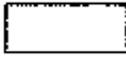
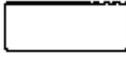
# Anthem Telecom Lockheed Martin Site Photos (page 5)



Power room

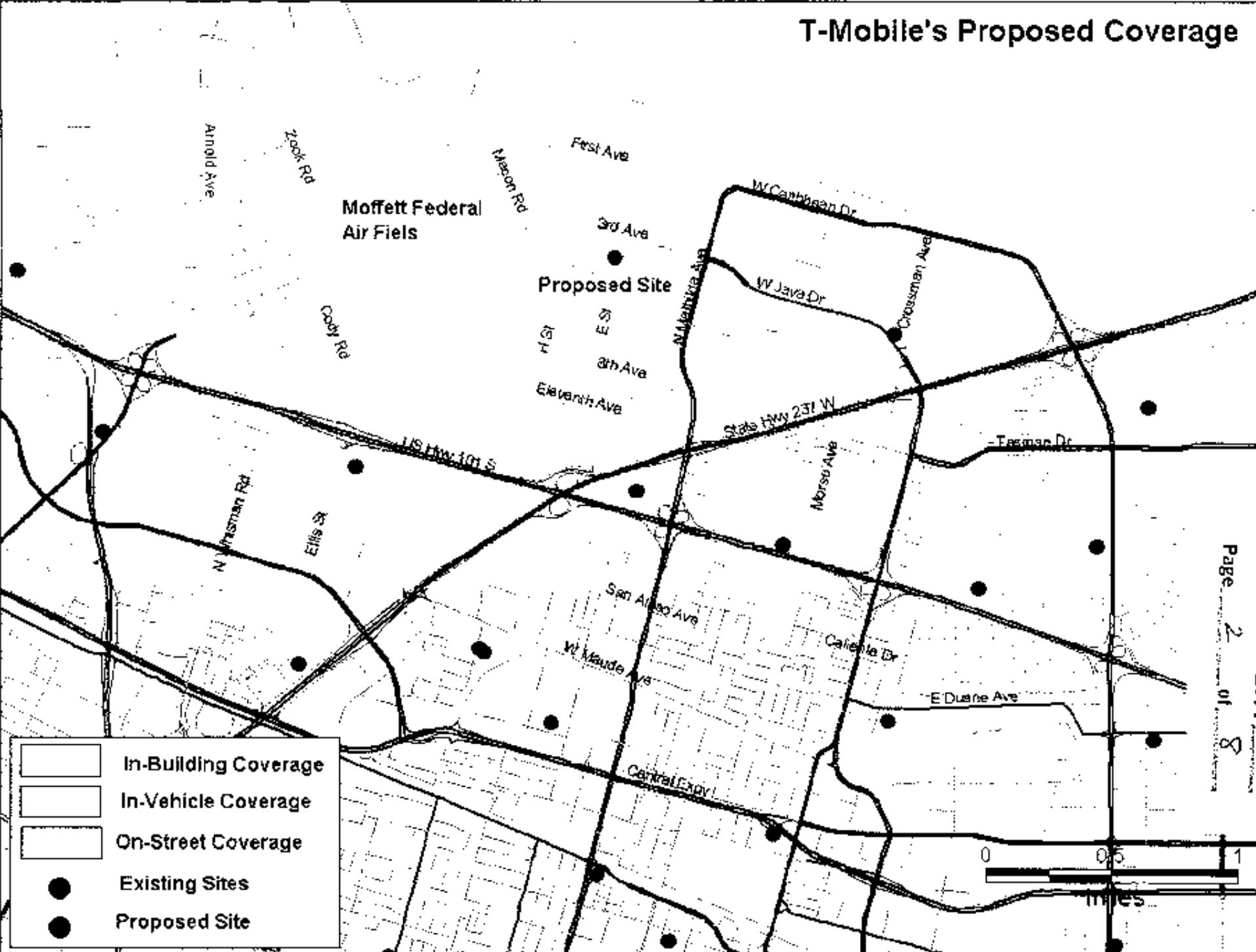
# T-Mobile's Existing Coverage



-  In-Building Coverage
-  In-Vehicle Coverage
-  On-Street Coverage
-  Existing Sites
-  Proposed Site



# T-Mobile's Proposed Coverage

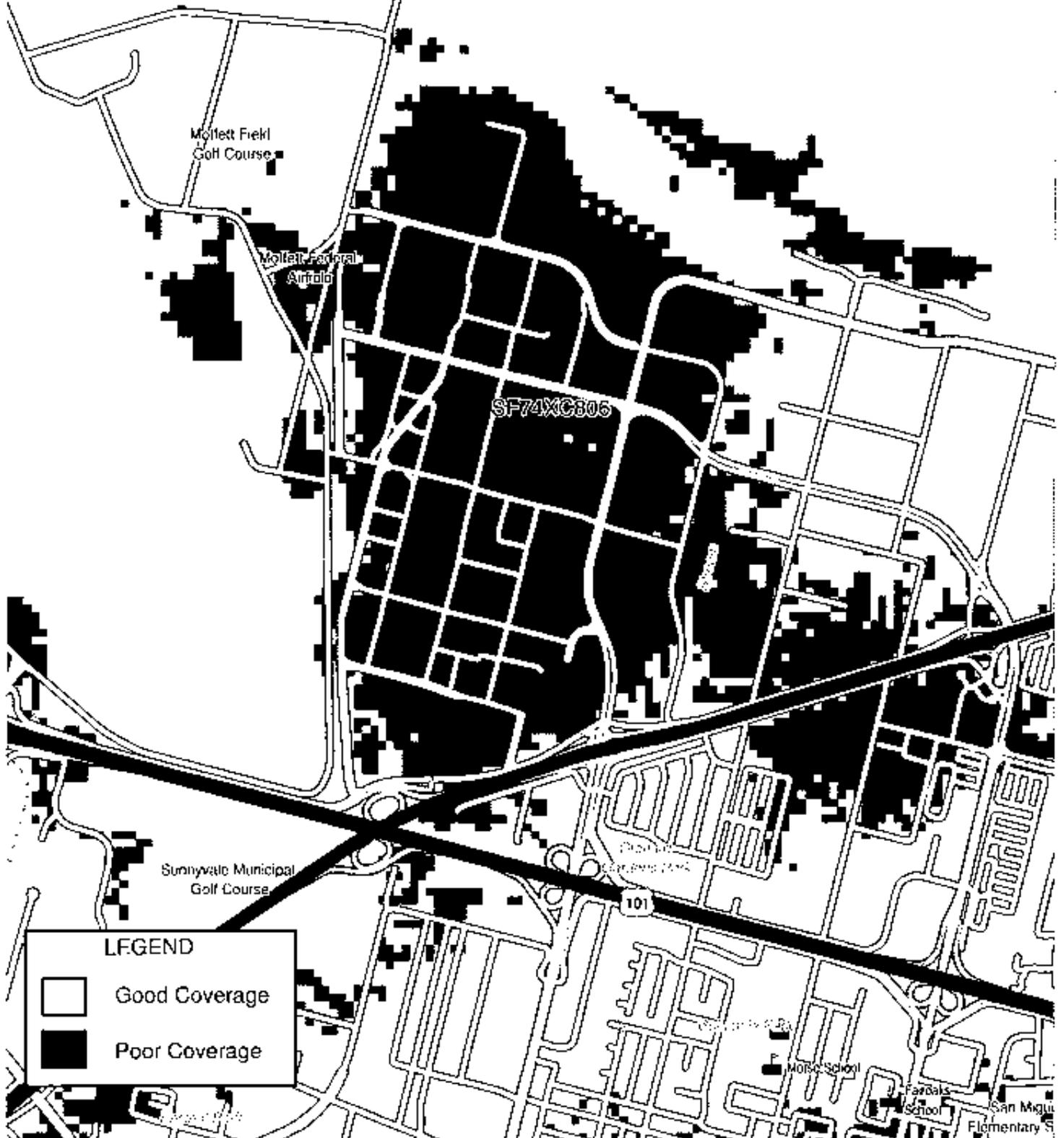


	In-Building Coverage
	In-Vehicle Coverage
	On-Street Coverage
	Existing Sites
	Proposed Site



# Existing Coverage

SPRINT

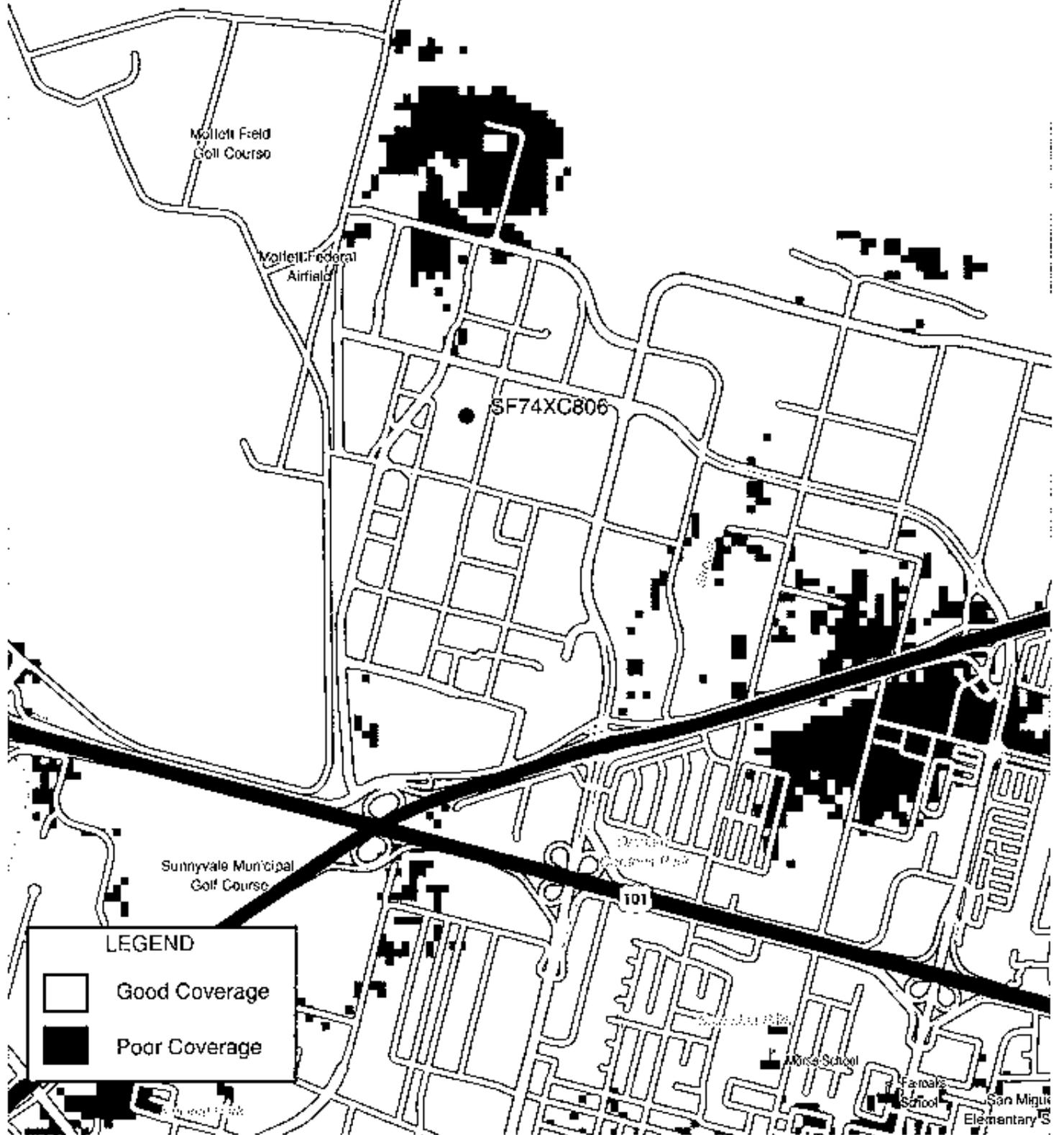


**LEGEND**

-  Good Coverage
-  Poor Coverage

# Proposed Coverage With SF74XC

SPRINT

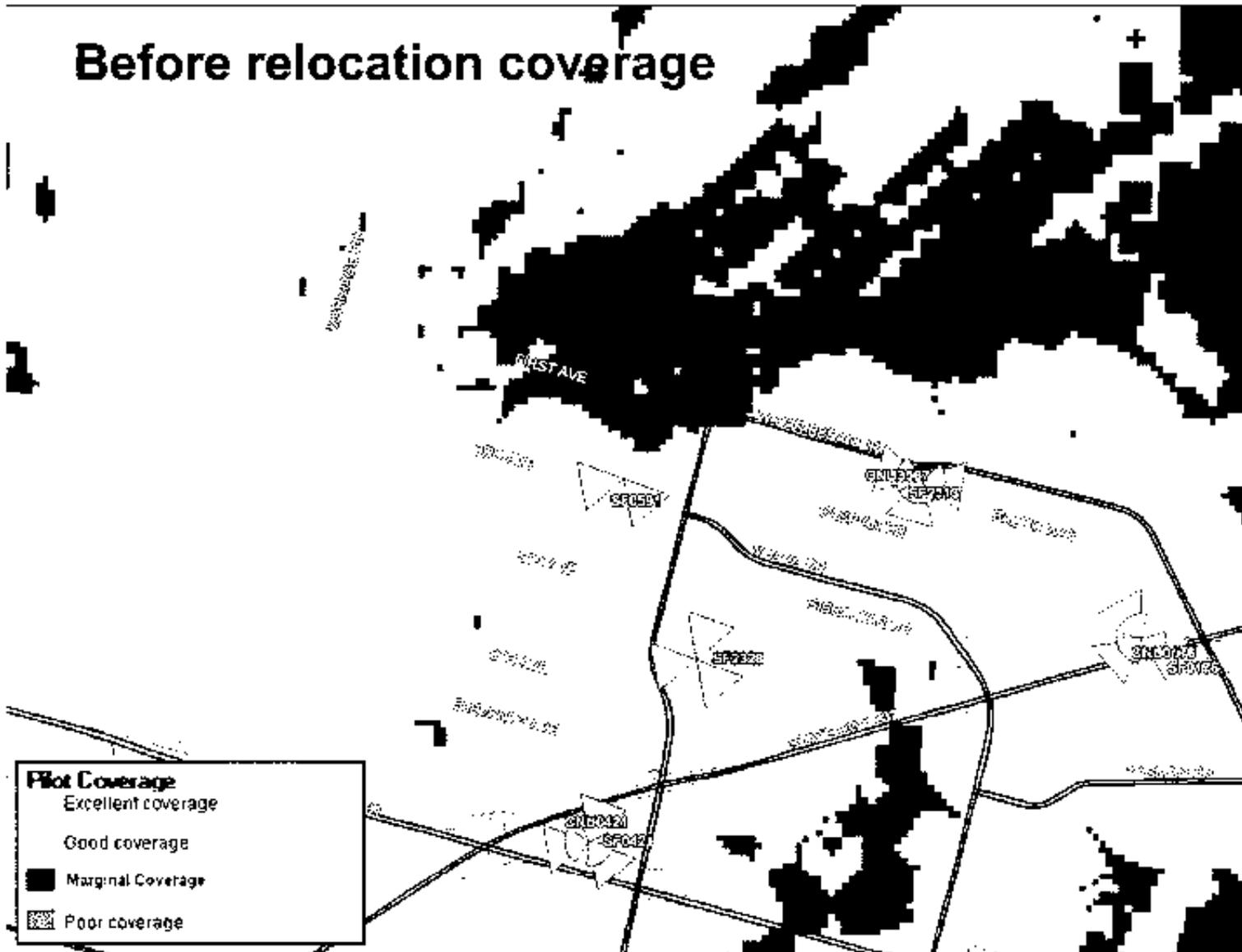


## LEGEND

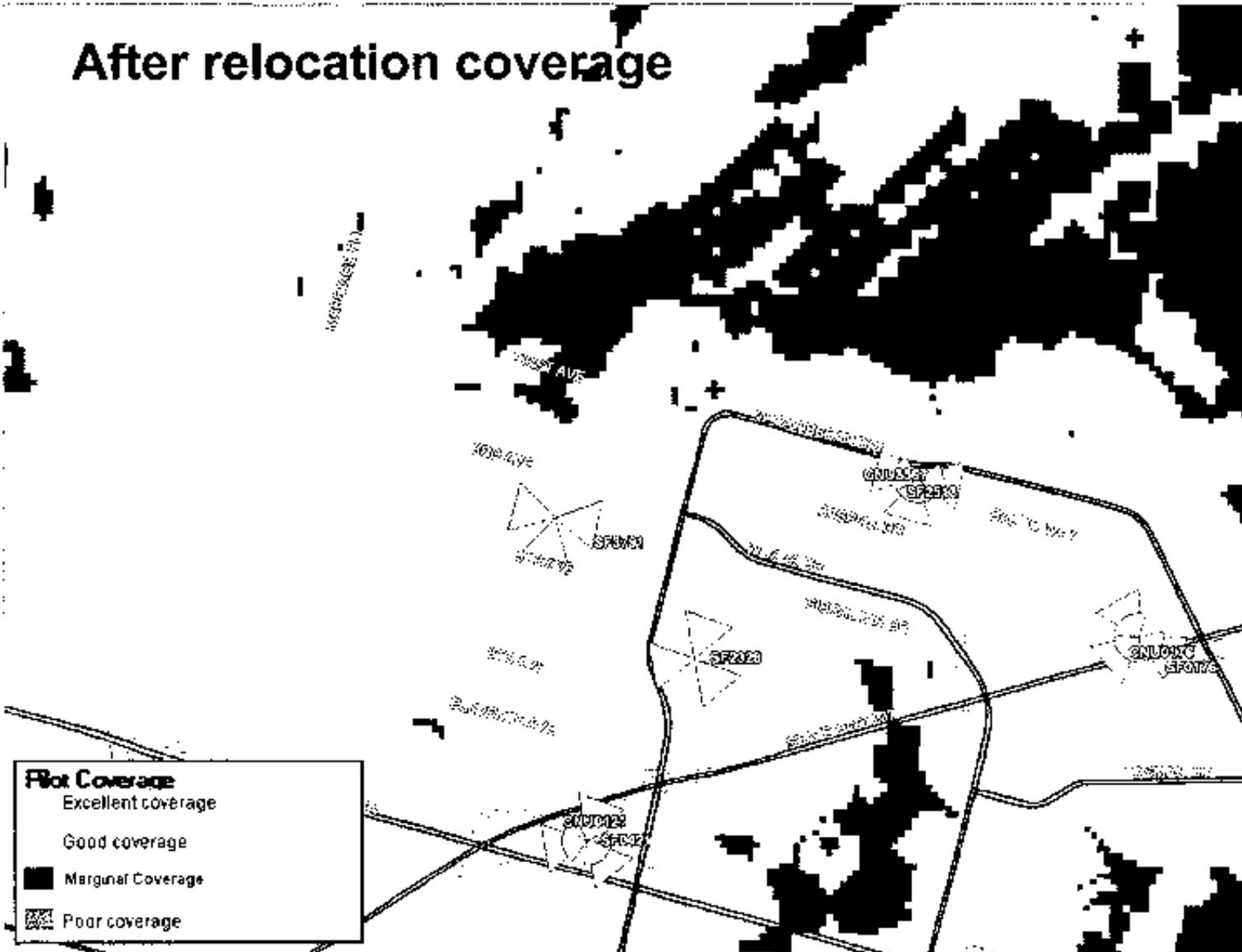
- Good Coverage
- Poor Coverage

AT&T

# Before relocation coverage

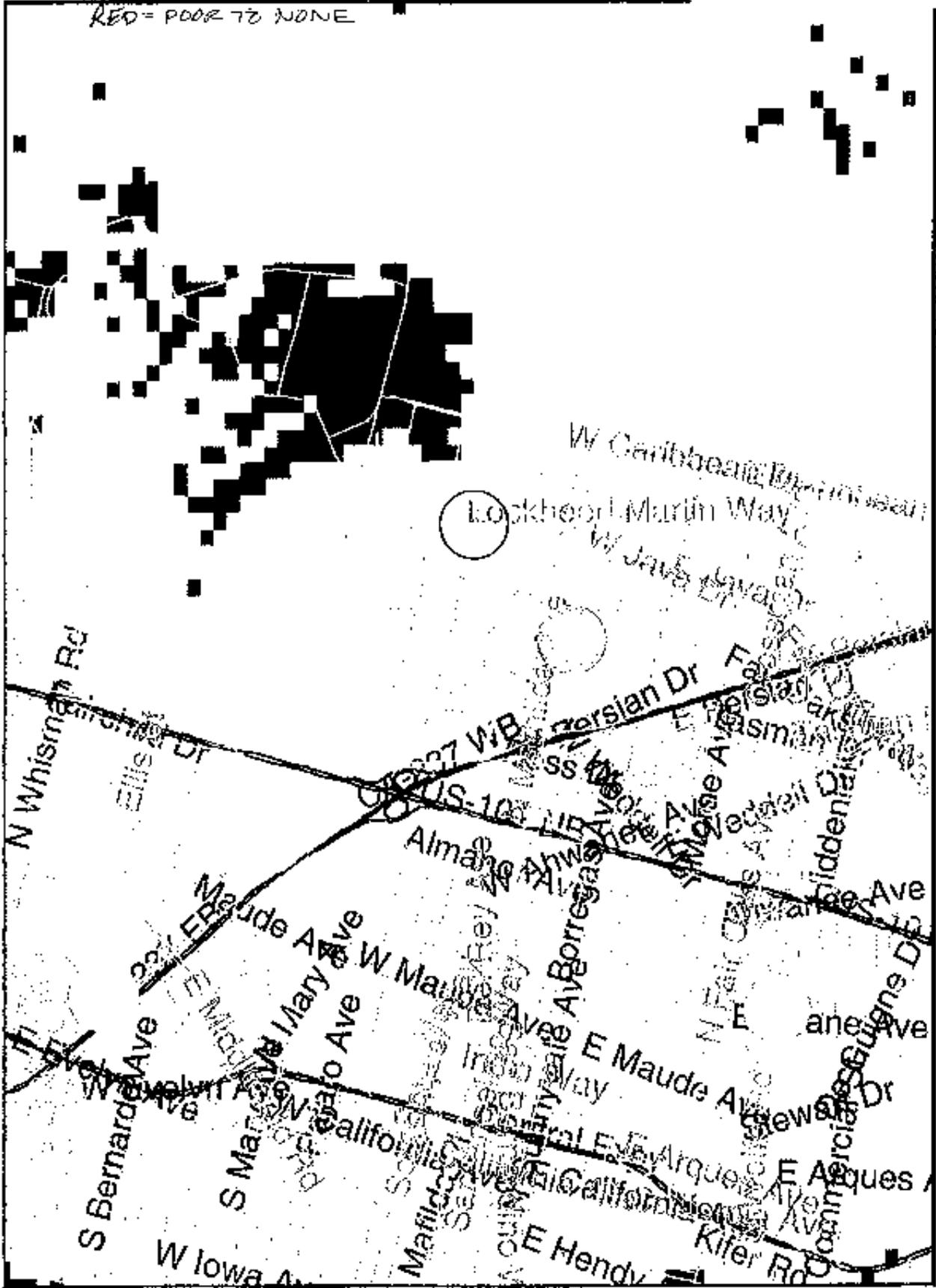


# After relocation coverage



Color: Green, Yellow, Magenta, Red

RED = POOR TO NONE



VERIZON NETWORK, LOCKHEED MARTIN SUNNYVALE CAMPUS



***Lawrence Behr Associates, Inc.***

**FCC Compliance Assessment  
Lockheed Martin Sunnyvale Campus  
Sunnyvale, California**

*Prepared for*

**Anthem Telecom  
436 Prospect St.  
Newport Beach, California**

*January 29, 2010*

NOTICE

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LAWRENCE BEHR ASSOCIATES, INC.  
GREENVILLE, NORTH CAROLINA

# **FCC Compliance Assessment Lockheed Martin Sunnyvale Campus**

**Anthem Telecom  
Newport Beach, California**

## **Introduction**

Lawrence Behr Associates, Inc. (LBA) has been retained by Anthem Telecom of Newport Beach, CA to evaluate the RF emissions of a proposed new site located on the Lockheed Martin Sunnyvale Campus in Sunnyvale, CA. This site will be used by AT&T at the 70' level, Sprint at the 97' level, Verizon Wireless at the 79' level, and T-Mobile at the 105' level. The calculations in this report are based upon data supplied by the carriers and worse case assumptions.

## **RF Exposure (NER) Levels**

US Code Title 47 CFR 1.1310 states that the maximum permissible exposure (MPE) level from non-ionizing electromagnetic radiation (NIER) for the general public in the above frequency ranges is 1 milliwatt per square centimeter ( $mW/cm^2$ ). The MPE is a measure of RF power density at or below which no harmful effects will be caused by the exposure. Industry standards reference these calculations to the ANSI Standard C95.1-1992 and are based on a worst case scenario.

The Lockheed Martin Sunnyvale Campus Site is a locked, fenced compound measuring approx. 71' x 51'. Under CFR 1.1310, the area within this compound is defined as a "controlled exposure" area. The shortest distance from the monopine to the fence line is approx. 20'; therefore, this report will base its findings on the presumption that the "uncontrolled exposure" area will begin 20' from the monopine.

**Power Density Calculations**

A summary of the power density calculations are listed in the following tables:

**Sprint**

Distance from Tower (feet)	IDEN 800 MHz band (mw/cm <sup>2</sup> )	CDMA 1900 MHz band (mw/cm <sup>2</sup> )	Total RF Density	% FCC Standard
20	.0053	.0105	.0203	2.03
30	.0050	.0100	.0150	1.50
40	.0047	.0093	.0140	1.40
50	.0044	.0087	.0131	1.31
60	.0040	.0079	.0119	1.19
70	.0036	.0072	.0108	1.08
80	.0033	.0065	.0098	.980
90	.0030	.0059	.0089	.890
100	.0027	.0053	.0080	.800

**Verizon**

Distance from Tower (feet)	CDMA 850 MHz band (mw/cm <sup>2</sup> )	CDMA 1900 MHz band (mw/cm <sup>2</sup> )	776 MHz band (mw/cm <sup>2</sup> )	Total RF Density	% FCC Standard
20	.0180	.2050	.0850	.3080	30.0
30	.0160	.0910	.0380	.1450	14.5
40	.0150	.0510	.0210	.0870	8.7
50	.0130	.0320	.0130	.0580	5.8
60	.0120	.0220	.0090	.0430	4.3
70	.0100	.0160	.0070	.0330	3.3
80	.0090	.0120	.0050	.0260	2.6
90	.0080	.0100	.0040	.0220	2.2
100	.0070	.0080	.0030	.0180	1.8

**T-Mobile**

Distance from Tower (feet)	CDMA 1940 band (mw/cm <sup>2</sup> )	Total RF Density	% FCC Standard
20	.0026	.0026	.26
30	.0025	.0025	.25
40	.0024	.0024	.24
50	.0022	.0022	.22
60	.0021	.0021	.21
70	.0019	.0019	.19
80	.0017	.0017	.17
90	.0016	.0016	.16
100	.0014	.0014	.14

**AT&T (GSM)**

Distance from Tower (feet)	CDMA 850 MHz band (mw/cm <sup>2</sup> )	CDMA 1900 MHz band (mw/cm <sup>2</sup> )	Total RF Density	% FCC Standard
20	.0190	.0269	.0459	4.5
30	.0174	.0246	.0420	4.2
40	.0155	.0219	.0374	3.7
50	.0136	.0193	.0329	3.2
60	.0119	.0168	.0287	2.8
70	.0103	.0145	.0248	2.4
80	.0089	.0126	.0215	2.1
90	.0078	.0110	.0188	1.8
100	.0068	.0096	.0164	1.6

**AT&T (UMTS)**

Distance from Tower (feet)	UMTS 850 MHz band (mw/cm <sup>2</sup> )	UMTS 1900 MHz band (mw/cm <sup>2</sup> )	Total RF Density	% FCC Standard
20	.0073	.0021	.0094	.94
30	.0067	.0019	.0086	.86
40	.0059	.0017	.0076	.76
50	.0052	.0015	.0067	.67
60	.0046	.0013	.0059	.59
70	.0040	.0012	.0052	.52
80	.0034	.0010	.0044	.44
90	.0030	.0009	.0039	.39
100	.0026	.0008	.0034	.34

**Total Exposure Levels**

Distance from Tower (feet)	Sprint (mw/cm <sup>2</sup> )	Verizon (mw/cm <sup>2</sup> )	T-Mobile (mw/cm <sup>2</sup> )	AT&T GSM (mw/cm <sup>2</sup> )	AT&T UMTS (mw/cm <sup>2</sup> )	Total RF Density	% FCC Standard
20	.0203	.3080	.0026	.0459	.0094	.3862	38.62
30	.0150	.1450	.0025	.0420	.0086	.2131	21.31
40	.0140	.0870	.0024	.0374	.0076	.1484	14.84
50	.0131	.0580	.0022	.0329	.0067	.1129	11.29
60	.0119	.0430	.0021	.0287	.0059	.0916	09.16
70	.0108	.0330	.0019	.0248	.0052	.0757	07.57
80	.0098	.0260	.0017	.0215	.0044	.0634	06.34
90	.0089	.0220	.0016	.0188	.0039	.0552	05.52
100	.0080	.0180	.0014	.0164	.0034	.0472	04.72

**Conclusion**

As shown in the Total Exposure Level table, the worst case scenario yields a maximum RF density of .3862 mw/cm<sup>2</sup> or 38.62% of the FCC MPE limit for uncontrolled exposure. Based upon the above calculations, it is determined that the proposed site at the Lockheed Sunnyvale Campus is in compliance with ANSI/FCC standards and will provide no safety concerns to the general public.

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January 29, 2010



Michael W. Hayden NCE CPBE CBNT AMD

February 12, 2010

City of Sunnyvale  
Community Development Department  
Planning Division  
Attn: Senior Planner, Steve Lynch  
456 W. Olive Ave  
Sunnyvale, CA 94086

**RE: Proposed Anthem Telecom Co-located Wireless Telecommunications Facility at Lockheed Martin Sunnyvale Campus**  
**Site Address: 1111 Lockheed Martin Way**  
**APN: 110-01-025**

Dear Steve,

This letter and attached materials are to request a Major Use Permit / Special Development Permit and 12-foot height Variance for a new multi-carrier wireless telecommunications facility at the Lockheed Martin campus in Sunnyvale, to be owned and managed by the tower company Anthem Telecom. The Applicant has no other sites proposed in Sunnyvale and has all applicable permits for the project (absent the ones requested here). In support of this project, please see the following project purpose, description, project area description, alternative site analysis, and justifications for the use permit and variance.

**A. Project Purpose:**

The purpose of this project is to improve wireless telecommunications to the surrounding area including greatly demanded service to Lockheed Martin, Yahoo and the surrounding office park. These wireless services include mobile telephone service, emergency 911 services, data transfer, electronic mail, internet and web browsing, as well as video streaming. The improved coverage is depicted in the attached propagation maps. The underlying landlord, Lockheed Martin commissioned this project pursuant to a November 2008 request for proposals. Lockheed Martin is in desperate need of improving the quality and diversity of wireless telecommunications services being offered to its approximately eight thousand employees who work at its Sunnyvale campus. Currently, in-building and outdoor dead zones exist across the campus for all commercial wireless carriers and blocked, dropped and distorted calls are a persistent problem for employees, contractors and visitors. Lockheed Martin has asked for the existing suboptimal single carrier site on its campus to be removed and for a new multi-carrier site to be centralized at the presently proposed location. Thus the proposed site will improve wireless telecommunications services to the area while meeting the landlord's needs for an efficiently designed, centralized and secure equipment area.

**B. Project Description:**

The proposed wireless telecommunications facility consists of a 5,800 square foot Anthem Telecom lease area with four proposed carrier sublease areas and two future sublease areas enclosed within an 8-foot high chain link fence. The carriers' equipment within the lease areas will be connected by coaxial cables to associated antennas mounted on a new monopine<sup>1</sup> – a stealth pole designed to look like a redwood tree, spanning 112-feet in height from the ground to the tips of the top branches. Lockheed Martin (not PG&E) will provide power for the four proposed collocated carriers and AT&T (2600 Camino Ramon, San Ramon, CA 94583) will provide landline wired telephone service to the site. T-Mobile, Sprint and AT&T will have generator plugs to allow for the emergency installation of a generator in the event of an emergency only. Verizon will have an actual generator on site to be used only in the case of an emergency. The four carriers' equipment configurations are as follows:

1. **T-Mobile**: At the top of the monopine with a centerline of 105-feet above ground level, T-Mobile proposes to install eight panel antennas approximately four and a half feet long, spread out over four sectors of two antennas each, and with associated miniature amplifiers mounted behind. T-Mobile's equipment area will consist of four equipment cabinets, power and telecommunications utility cabinets, and a battery backup cabinet all located within a 12-foot by 20-foot sublease area (240 square feet total). A small light and GPS antenna will be placed near the equipment.
2. **Sprint/Nextel**: Second from the top of the monopine at a centerline of 97-feet, Sprint Nextel proposes to install 12 panel antennas approximately four feet long, spread out over three sectors of four antennas each. Sprint Nextel's sublease area will be 16-feet by 26-feet (416 square feet total) with a 10-foot by 20-foot temperature-controlled equipment shelter standing approximately 10-feet tall and associated telecommunications equipment inside. Three small GPS antennas will be placed on the shelter.
3. **Verizon**: At a centerline of 79-feet, Verizon proposes to install nine panel antennas varying in height from approximately four to four and a half feet long, spread out over three sectors of three antennas each. Verizon's sublease area will be 15-feet by 35-feet (525 square feet total) with four equipment cabinets, two battery backup cabinets, a miscellaneous cabinet, power and fiberoptic telecommunications cabinets, a backup generator, two small GPS antennas and four tech lights.
4. **AT&T**: At a centerline of 70-feet, AT&T proposes to install 12 antennas each approximately six-feet long, clustered into three sectors of four antennas each, and nine associated amplifiers mounted behind the antennas. AT&T's sublease area will be 15-feet by 25-feet (375 square feet total) with six equipment cabinets plus power and telecommunications cabinets, a GPS antenna and a tech light.
5. **Future Carriers**: Space is reserved on site for two additional carriers with antennas at centerlines of 88- and 62-feet above ground level. Two 12-foot by 20-foot sublease areas (240 square feet each) are also reserved for these future carriers.

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<sup>1</sup> "Monopine" is a term of art used to refer to a stealth telecommunications site designed to look like a tree. The stealthing is designed to match surrounding trees – which are in this case redwood trees. Therefore the proposed site could more accurately be described as a "mono-redwood" but we shall continue to keep with the standard term of art and refer to it as a "monopine."

**C. Project Area Description:**

The project area was chosen for its maximization of coverage, its available space, and its minimized visual impact to the surrounding area. It is centrally located in the middle of the Lockheed Martin campus at a parking lot near 3<sup>rd</sup> Avenue between H and E Streets amidst buildings in excess of 50-feet in height. This highly secure 40-building, 414-acre campus abuts the bay to the north, the airport to the west, the 237 and 101 freeways to the south, and is closed to the public at Mathilda Avenue to the east. Beyond Mathilda there are commercial business parks without any nearby residences. Minimal visual impact will be imposed (as depicted by the attached photographic simulations) – especially considering the distance to public streets and any residences. Furthermore, the proposed monopine will blend in with the surrounding 60-foot tall redwood trees planted as landscaping around the buildings.

**D. Use Permit Justifications:**

Sunnyvale Zoning Code Section 19.88.050 requires one of the two following findings to be established before a use permit may be granted: the proposed use either (1) Attains the objectives and purposes of the City's general plan; or (2) Ensures that the general appearance of proposed structures, or the uses to be made of the property to which the application refers, will not impair either the orderly development of, or the existing uses being made of, adjacent properties.

The proposed site attains the objectives and purposes of many provisions of the City's general plan. First, it meets the City's law enforcement goal (Element 4.1, Goal A) by helping to provide a safe and secure environment for people and property in the community. Available wireless telecommunications service allows surrounding people to utilize local emergency 911 police and fire services and helps ensure a rapid response time.

The proposed project also helps achieve Goal A within the City's General Plan Element 7.2.1 by contributing to assure that all community members have reasonable access to City information, services and programs within budgeted resources. Mobile wireless access allows people within the service range to access City online and phone resources more easily.

Furthermore, the proposed project meets the City's Private Development Element 2.5 within the General Plan. Goal C sets forth that the City shall ensure buildings and related site improvements for private development are well designed and compatible with surrounding properties and districts. The proposed stealth monopine achieves this goal because the design shall conform to the surrounding landscaped redwood trees and shall be located within an industrial area inaccessible to the general public.

The proposed project falls within the priorities of the City's General Plan Element 2.2 regarding community development. Policy 2.2.D.4, 5 and 7 give priority to services, facilities and amenities in which the community demonstrates interest, that benefit a greater number of residents and that can be used by a greater number of residents. This project is prioritized accordingly because it will meet the wireless telecommunications demands and needs of the surrounding community.

As is demonstrated from the attached photographic simulations and drawings, our proposal meets the second Use Permit requirement because the site will be stealthed to look like a redwood tree amidst other nearby redwood trees, so the appearance will not impair the orderly development of, or the existing uses being made of, adjacent properties. Furthermore the site is set back from public view well within the Lockheed Martin campus.

**E. Alternative Site Analysis:**

Several alternative sites were considered in the development of this project but were rejected for various reasons. The interested carriers' input was also considered in choosing a site so as best to achieve their coverage objectives. When choosing a site, we balanced goals of meeting carriers' coverage needs, meeting the landlord's needs, sufficient space requirements for a multi-carrier site, and minimized visual impact. We primarily sought to locate a site on the Lockheed Martin campus in order to meet its coverage needs. The alternative sites and justifications for their denial are elucidated below.

1. Fifth Avenue and G Street: The originally recommended site was in a parking lot on the Lockheed Martin campus at the northeast corner of Fifth Avenue and G Streets. There is plenty of room at this location for the proposed installation, and it is set back far enough from public view that it would not impose significant visual impairment. However, the carriers did not think it would best meet their coverage objectives, and that a site further north would better suit their needs. Also there are no surrounding trees at this location around which the proposed monopole could blend in.
2. E Street between Second and Third Avenues: Similar to the first candidate above, this candidate was denied because a stealth design could not be implemented and the site would be too close to the nearby Building 156 - which would interfere with the carriers' signals and cause interference problems for Lockheed Martin's industrial uses inside that building. The carriers sought a site more centralized within the campus so as to cover the entire campus.
3. Off-Campus Locations: Several locations off the Lockheed Martin campus were also considered but rejected including a site at the Yahoo building or any other of the office buildings along Mathilda Avenue. Unfortunately there is not enough space for a collocation site at these locations and a collocation monopole would impose too much visual impact compared to a site on the secure Lockheed Martin campus. Also an off-campus site would not adequately cover Lockheed Martin - which is the site's primary objective.

**F. Variance Justifications:**

Sunnyvale Zoning Code Section (Table) 19.29.140 imposes a 75-foot height limit in the Moffet Park Industrial Zone (where our project is proposed) and Section 19.32.030 allows an additional 25-foot in height for telecommunications towers such as the one we propose. However, this amounts to an allowed height limit of only 100-feet, and we propose a 112-foot tall tower (to the tops of the proposed artificial tree branches) so our project requires a variance to exceed this height limit by 12-feet. Therefore we respectfully request a 12-foot height variance pursuant to Sunnyvale Zoning Code Section 19.84.

Section 19.84.050 of the Sunnyvale Zoning Code allows a variance to be granted if it meets all of the following three criteria: (1) Because of exceptional or extraordinary circumstances or conditions applicable to the property, or use, including size, shape, topography, location or surroundings, the strict application of the ordinance is found to deprive the property owner of privileges enjoyed by other properties in the vicinity and within the same zoning district; (2) The granting of the variance will not be materially detrimental to the public welfare or injurious to the property, improvements, or uses within the immediate vicinity and within the same zoning district; and (3) Upon granting of the variance, the intent and purpose of the ordinance will still be served and the recipient of the variance will not be granted special privileges not enjoyed by other surrounding property owners within the same zoning district.

The project meets the first criterion because Lockheed Martin is a uniquely large, highly secure, efficiently organized campus that can only relinquish limited space for telecommunications. That space must be efficiently used and centralized in order to meet the coverage needs of the campus, and only the proposed site at the requested height can meet Lockheed Martin's needs while achieving adequate

antenna vertical separation and height required by the carriers. Otherwise, the campus will be deprived of the wireless telecommunications privileges enjoyed by other properties on which scattered smaller sites can achieve adequate coverage.

The second criterion for a variance is met because the proposed site will enhance public welfare by ensuring emergency 911 services and mobile communications to the area. An argument can be made that denying the requested variance would be more detrimental to the public welfare than granting it.

The third and final variance requirement is met, as shown in the Use Permit justifications above, because the proposed project achieves the goals set forth in the City's General Plan and Zoning Ordinance. By extending the height limit for this site, no other height limits will be extended, so no special privileges will be granted. The requested variance will simply allow the Lockheed Martin campus to enjoy the privileges of wireless communications already enjoyed by surrounding areas.

#### G. Conclusion:

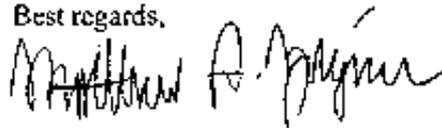
The proposed site is an excellent collocation that will enhance wireless telecommunications coverage and improve business for the underserved Lockheed Martin campus and surrounding areas. A use permit and height variance should be granted because the proposal complies with all the applicable zoning requirements and meets the goals of the City's General Plan. We respectfully request approval accordingly.

In support of this application, please find the following materials:

- (1) A completed Application signed by the property owner;
- (2) A completed Environmental Information Form;
- (3) Two full-sized drawings depicting the proposed site and all proposed carriers (24" by 36");
- (4) Twelve reduced copies of the drawings (11" by 17");
- (5) Two-perspective photographic simulations depicting the project;
- (6) Photographs of the existing site;
- (7) A radio-frequency emissions analysis;
- (8) Propagation maps from each carrier showing coverage by the proposed installation; and
- (9) A check for the filing fee amount.

Feel free to contact me at 415-596-3474 or [myergo@gmail.com](mailto:myergo@gmail.com) if you have any questions. Thank you for your consideration of our application.

Best regards,



MATTHEW S. YERGOVICH  
For Anthem Telecom

**PLANNING COMMISSION MINUTES OF JUNE 28, 2010**

**2010-7095 - Anthem Telecom, LLC [Applicant] Lockheed Missiles and Space Co., Inc. [Owner]:** Special Development Permit to allow a 112' tall wireless telecommunications monopine including antennas for up to six carriers and associated ground equipment within a new enclosure on the Lockheed Martin campus located at **1111 Lockheed Martin Way** (Negative Declaration) (APN: 110-01-025) MH

**Steve Lynch**, Senior Planner, presented the staff report. He said staff is recommending approval of the project subject to the Conditions of Approval in Attachment B. He said one new item of information since the report was written is the applicant has now contracted with a fifth potential carrier, Clearwire, to also be located on the pole if approved.

**Comm. Klein** discussed with staff the photo simulations in Attachment E. **Comm. Klein** asked about the existing chain-link enclosure and why a masonry enclosure is not required with staff explaining the pole is located in the Lockheed complex so noise would only affect Lockheed. **Comm. Klein** discussed the height of the pole with staff and the feasibility of making the pole 100 feet or less. **Trudi Ryan**, Planning Officer, said staff understands that one of the particular carriers needs the height because of the taller buildings in the vicinity.

**Comm. Sulser** asked staff to discuss whether the proposed height being requested is considered a deviation or a variance. **Ms. Ryan** said this is essentially a deviation and the code allows for height greater than 100 feet north of 237 subject to City Council review, noting that the buildings in the Moffett Park area can be very tall. Staff showed samples of the materials used for the faux tree.

**Comm. Rowe** discussed with staff the illustrations and antenna of the proposed tree pole with staff saying that the additional five feet on the top of the pole is for aesthetic purposes.

**Chair Chang** opened the public hearing.

**Matt Yergovich**, representing Anthem Telecom, the applicant, discussed the proposed design, location, and the collocation of the carriers. He said the proposed pole balances the needs of Lockheed Martin, co locators, and the City. He discussed Anthem Telecom and Lockheed Martin's need for a secure site. He said this pole keeps all carriers in one location and off of Lockheed's buildings. Mr. Yergovich presented a PowerPoint, and said representatives from the five proposed co locators and Lockheed Martin are in the audience. Mr. Yergovich

discussed the configuration of the carriers on the one pole, the separation requirements for the carriers, and the secure site for Lockheed. He discussed the aesthetics of the branches and the stealth vendor that supplies the "tree". He said Lockheed allowed staff to visit, and endorses the Anthem proposal. He said the location was chosen as there are surrounding trees and a nearby building that partially obscures the tree. He said the visual impact is minimal from any public areas. Mr. Yergovich said the proposal balances all of the parties needs: Lockheed's need for security and a high level of service for the area, the carriers needs, and the City needs in minimizing visual impact with a stealth design.

**Comm. Sulser** asked the applicant about the height of the pole being much taller than the surrounding trees. Mr. Yergovich said the nearby redwoods are currently 50 or 60 feet high, however the proposed pole does balance needs. Comm. Susler discussed the aesthetics of the pole with the applicant saying the redwood would be tailored to this site.

**Comm. Rowe** discussed with the applicant the nearby 50 foot buildings and trees and whether all of the antennas need to be above the buildings and trees. Mr. Yergovich said the antennas need a line of site and that the Use Permit needs to be renewed in 10 years which allows a time for the applicant and the City to review the permit.

**Comm. Klein** discussed the spacing and height of the co locators on the pole. Mr. Yergovich said that everything has been done that can be done to minimize the height of the pole with all of the carriers on it.

**Comm. Hungerford** further discussed with the applicant the height of the pole and the carriers' coverage needs. Mr. Yergovich said that the coverage is a complex issue.

**Mr. Yergovich** thanked the Commission for their time.

**Chair Chang** closed the public hearing.

**Comm. Rowe** moved for Alternative 1, to recommend the City Council adopt the Negative Declaration and approve the Special Development Permit with the Conditions of Approval located in Attachment B. **Comm. Klein** seconded the motion.

**Comm. Rowe** said the staff report was thorough and she is convinced that the pole will not be a problem for Sunnyvale and it meets the needs of Lockheed.

**Comm. Klein** said he would be supporting the motion as he was able to make the findings. He commended the applicant for not proposing something that would be an eyesore. He said generally in a business park the poles are just poles and what is proposed will be more aesthetically pleasing. He said he visited the Carlisle monopine today, which is similar to the proposed pole, and it fits in well. He said this tree pole should fit in at Lockheed. He said he was concerned about the height, however this is in a business area and there are extenuating circumstances.

**Comm. Hungerford** said he is on the fence regarding this project because of the height of the pole. He said this is a unique situation and he would be supporting the motion due to the unique location.

**Comm. Sulser** said he would be supporting the motion and commended the applicant for making the effort to provide a tree pole that fits in.

**ACTION:** Comm. Hungerford made a motion on 2010-7371 to recommend the City Council adopt the Negative Declaration and approve the Special Development Permit with the Conditions of Approval located in Attachment B. Comm. Klein seconded. Motion carried 7-0.

**APPEAL OPTIONS:** This item is scheduled to be considered by City Council at their meeting of July 20, 2010.